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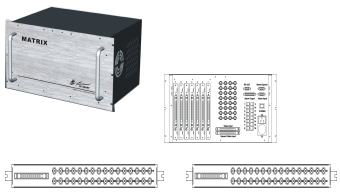
TOUCH PANEL LCD

CONTROL KEYBOARD ART. 45290

And

MATRIX ART. 45208-45216-45232



Product User Manual

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PRECAUTION

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVERTISSEMENT: POUR EVITER LE DANGER DE CHOC ELECTRIQUE, NE RETIREZ JAMAIS LE CAPOT ARRIERE. AUCUNE PIECE NE PEUT ETRE REMPLACEE PAR L'UTILISATEUR. TOUTE REPARATION DOIT ETRE EFFECTUEE PAR UN TECHNICIEN QUALIFIE.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous Voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

Before using this unit, please read these operating instructions carefully. Take special care to the follow the warnings indicated on the unit itself as well as the safety suggestions listed below. Keep them handy for future reference.

1. **Power source** – The unit operates on 12V 1A of power.
2. **Power cord protection** – AC power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Never take hold of the plug or cord if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
3. **Water and Moisture** – Do not use this unit near the sources of water for moisture will damage the internal parts.
4. **Heat** – Do not install the unit near heat sources such as radiators, stoves, heat registers, or other appliances that product heat.
5. **Ventilation** – The unit should be situated so that its location or position does not interfere with its proper ventilation.
6. **Foreign Material** – Extremely caution should be taken so that the objects do not fall into the unit.

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7. **Surface** – Place the unit on a flat, level surface or the unit may fall causing serious damages to the unit.
8. **Damage Requiring Service** – The unit should be serviced by qualified service personnel when:
   - The power cord or the plug has been damaged; or
   - Objects have fallen or liquid has been spilled into the unit; or the unit has been exposed to rain or water; or
   - The unit does not appear to operated normally or exhibits a marked change in performance; or
   - The unit has been dropped, or the enclosure damaged.
9. **Replacement Parts** – Use only manufacturer specified parts. Unauthorized substitutions may result in fire, electrical shock or other hazards.
10. **Service** – Should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to an authorized service personnel.

Notification: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1)This device may not cause harmful interference and 2) This device must accept any interference received, including interference that may cause undesired operation.

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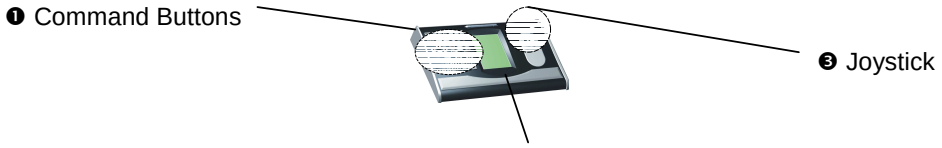
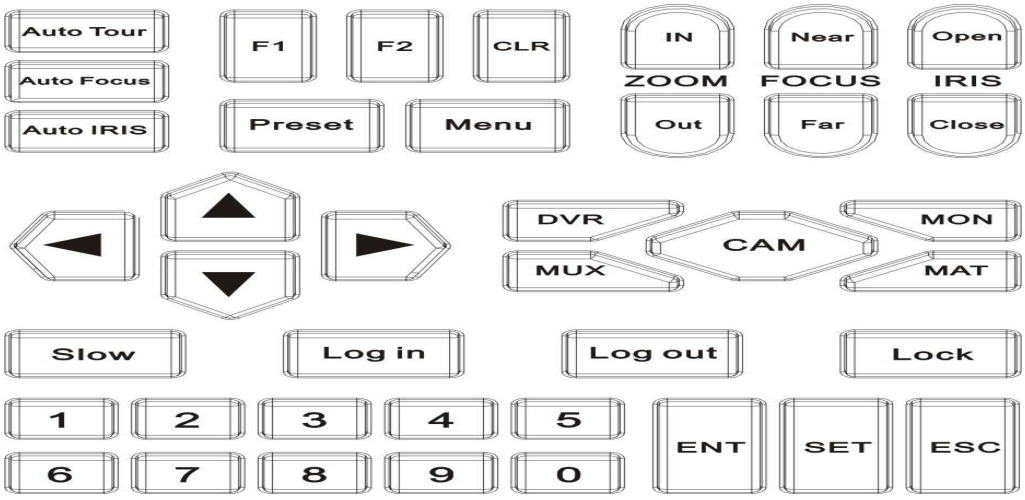
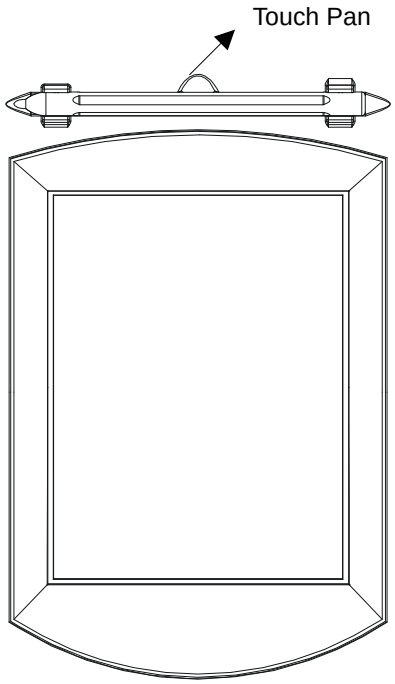
Touch Panel Type LCD: Control Keyboard



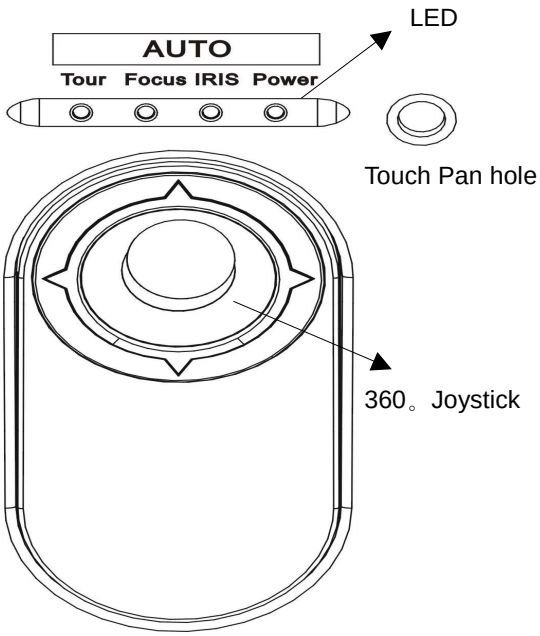
❶ Command Buttons



❷ LCD Touch Panel



❸ Joystick



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Touch Panel Type LCD: Control Keyboard LCD Menu Page

Key	Function Define
0 ~ 9	Numeric buttons. Call Device ID
CAM	Call Camera ID. Numeric (ID) + CAM
MUX	Call Multiplexer ID. Numeric (ID) + MUX
DVR	Call DVR ID. Numeric (ID) + DVR
MAT	Call Matrix ID. Numeric (ID) + MAT
MON	Call Monitor ID. Numeric (ID) + MON
SLOW	P/T/Z Dome slow speed move mode on and off.
LOG IN	Matrix user login. (Only for Matrix Mode use)
LOG OUT	Matrix user logout. (Only for Matrix Mode use)
LOCK	Key / joy / touch lock. Key Lock (Press until 3 sec) After, insert password to unlock.
ENT	Enter.
ESC	ESC / CLR Preset.
MENU	Enter setup menu.
PRESET	Call preset.
SET	Set preset. (Preset + SET press until 3 sec)
CLR	Clear preset one by one. (Preset + CLR press until 3 sec) 77 + SET press until 3 sec clear all preset.
ZOOM IN	Zoom in.
ZOOM OUT	Zoom out.
IRIS OPEN	IRIS open.
IRIS CLOSE	IRIS close.
FOCUS FAR	Focus far.
FOCUS NEAR	Focus near.
MISC1	Reserve.
MISC2	Reserve.
AUTO IRIS	Enable auto iris.
AUTO FOCUS	Enable auto focus.
AUTO TOUR	Auto Tour On/Off.
UP	Direct up.
DOWN	Direct down.
LEFT	Direct left.
RIGHT	Direct right.
LED	Tour/Focus/IRIS/Power.

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The P/T/Z Dome menu page after power on:

▶ CAM: 001		MUX:000
DVR: 000		MON:000
>		
ZOOM SPEED	FOCUS SPEED	FLIP
RIGHT LIMIT	LEFT LIMIT	LINE SCAN
MENU UP	MENU SET	STOP SCAN
MENU DOWN	PAN ZERO	MENU
HISHARP CAMERA YY MM/DD HH/MM/SS		

Description:

Factory default displays the HISHARP protocol P/T/Z dome control function page.

P/T/Z dome control function page would display different if user choose others P/T/Z dome protocol.

Please setup all control keyboard system menu before start to control all device. See the control keyboard menu setup. Single mode only use keyboard menu to setup. Matrix mode needs to setup by PC Matrix wizard.

Function Define:

▶ CAM: 001		MUX:000
DVR: 000		MON:000
>		
ZOOM SPEED	FOCUS SPEED	FLIP
RIGHT LIMIT	LEFT LIMIT	LINE SCAN
MENU UP	MENU SET	STOP SCAN
MENU DOWN	PAN ZERO	MENU
HISHARP CAMERA YY MM/DD HH/MM/SS		

CAM: 000 - CAM ID. Display the CAM ID after call camera.

MUX: 000 - MUX ID. Display the MUX ID after call Multiplexer.

DVR: 000 - DVR ID. Display the DVR ID after call DVR.

MON: 000 - MON ID. Display the MON ID after call Monitor.

ZOOM SPEED: Image zoom in and out speed setup.

FOCUS SPEED: Image focus speed setup.

FLIP: Auto 180。Flip.

RIGHT LIMIT: Line scan right position setup.

LEFT LIMIT: Line scan left position setup.

LINE SCAN: Start line scan.

MENU UP: P/T/Z dome OSD menu direction UP.

MENU SET: P/T/Z dome OSD menu values confirm.

STOP SCAN: Line scan stop.

MENU DOWN: P/T/Z dome OSD menu direction down.

PAN ZERO: If the preset position is not correct, pan zero to reset.

Menu Go to P/T/Z Dome OSD function menu setup

HISHARP CAMERA Now controlling the HISHARP protocol P/T/Z dome.

YY MM/DD HH/MM/SS Local date and time displays.

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Touch Panel LCD Control Keyboard: Menu Function Setup

■ Device controlling by LCD panel control keyboard:

1. P/T/Z dome

   -- Protocol: **HISHARP / PELCO-D / PELCO-P / LILIN**

   PS. The P/T/Z dome maximum controls check the company specifications.

2. Multiplexer

   - 9 CH / 16 CH Multiplexer. Total maximum is 16.

   Notice: Multiplexer Protocol must be compatible.

3. DVR

   --1 CH / 4 CH DVR. Total maximum is 16.

   Notice: DVR Protocol must be compatible.

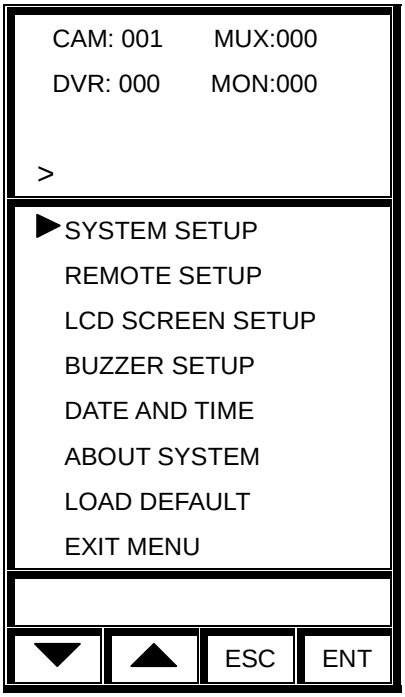
4. Matrix

   -- All devices connect to Matrix. Control functions go through RS-485 interface.

   Main controller is the control keyboard.

   Notice: All device (Multiplexer and DVR) protocol must be the same if goes through Matrix system.

Press MENU button to pop-up control keyboard system function setup:



Main function menu page:

1. SYSTEM SETUP
2. REMOTE SETUP
3. LCD SCREEN SETUP
4. BUZZER SETUP
5. DATE AND TIME
6. ABOUT SYSTEM
7. LOAD DEFAULT
8. EXIT MENU

▲ ▼ Direction Up and Down

ESC: Menu exit

ENT: Function values confirm

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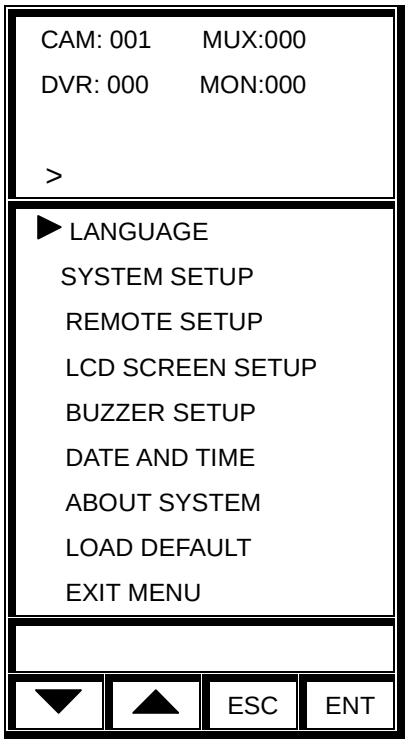
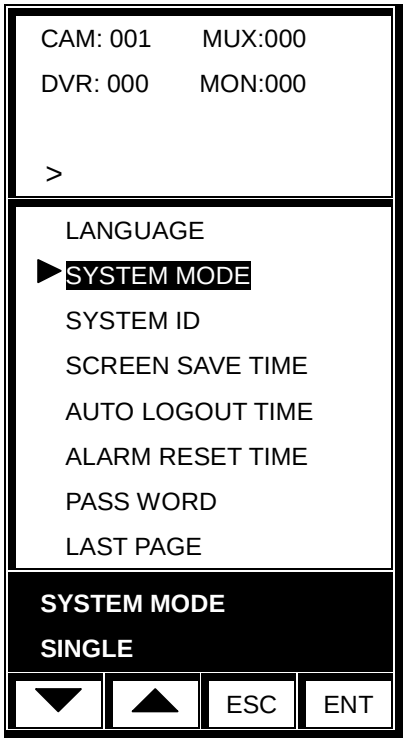
SYSTEM SETUP



Function mode menu page:



User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲ ▼ Press ENT to start sub-menu. Needs to press ENT again the mode window would become blink, use Up/Down key to change values. **Needs to press ENT to confirm value set after user change every item value.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

SYSTEM SETUP:

Setup the control keyboard system mode and function.

P.S: If user choose SINGLE mode, cannot connect any more keyboards, except needs to choose MATRIX mode. See page why Matrix?

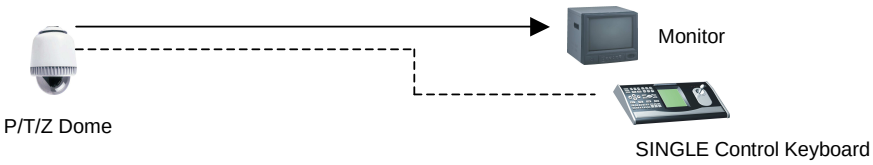
Function Setup:

1. LANGUAGE (Choose English or Chinese version)
   - ENGLISH / CHINESE
2. SYSTEM MODE (Choose system mode)
   - SINGLE / MATRIX
3. SYSTEM ID (Choose the keyboard system ID)
   - 01 ~ 16
4. SCREEN SAVE TIME (Screen save time setup)
   - ON/OFF
5. AUTO LOGOUT TIME (Auto log out time setup)
   - ON/OFF 5/10/15
6. ALARM RESET TIME (Alarm duration time setup)
   - 1~20MIN / OFF
7. PASS WORD (Password reset)
   - ********. Factory set is **10000001**. 8 characters.
8. LAST PAGE (Choose back to the main menu)
   - Press ENT back to the main menu page.

SINGLE mode: Only one control keyboard in the system. Single mode can be includes these systems below.

For Example:

◆ System A:

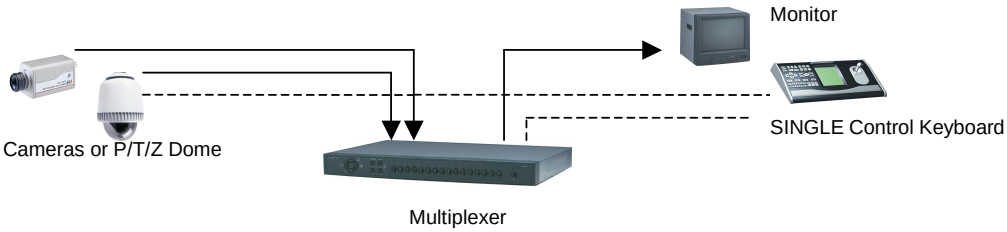


➢ System A Maximum device control:

Device	P/T/Z Dome	Control Keyboard
Maximum	X1	X1

* Monitor: Image viewer: Full screen display.

◆ System B:



➢ System B Maximum device control:

Device	P/T/Z Dome	Multiplexer	Control Keyboard
Maximum	X16	X1	X1

*Monitor: Image viewer. Full screen or quad split screen display by Multiplexer.

PS: DVR can be added in the system to record video image.

MATRIX mode: User choose the control keyboard on Matrix mode, keyboard connects up to 8 through matrix. Others device such as P/T/Z Dome up to 256; Multiplexer up to 16; DVR up to 16. Multi user can view and control each camera or P/T/Z Dome video image in different place.

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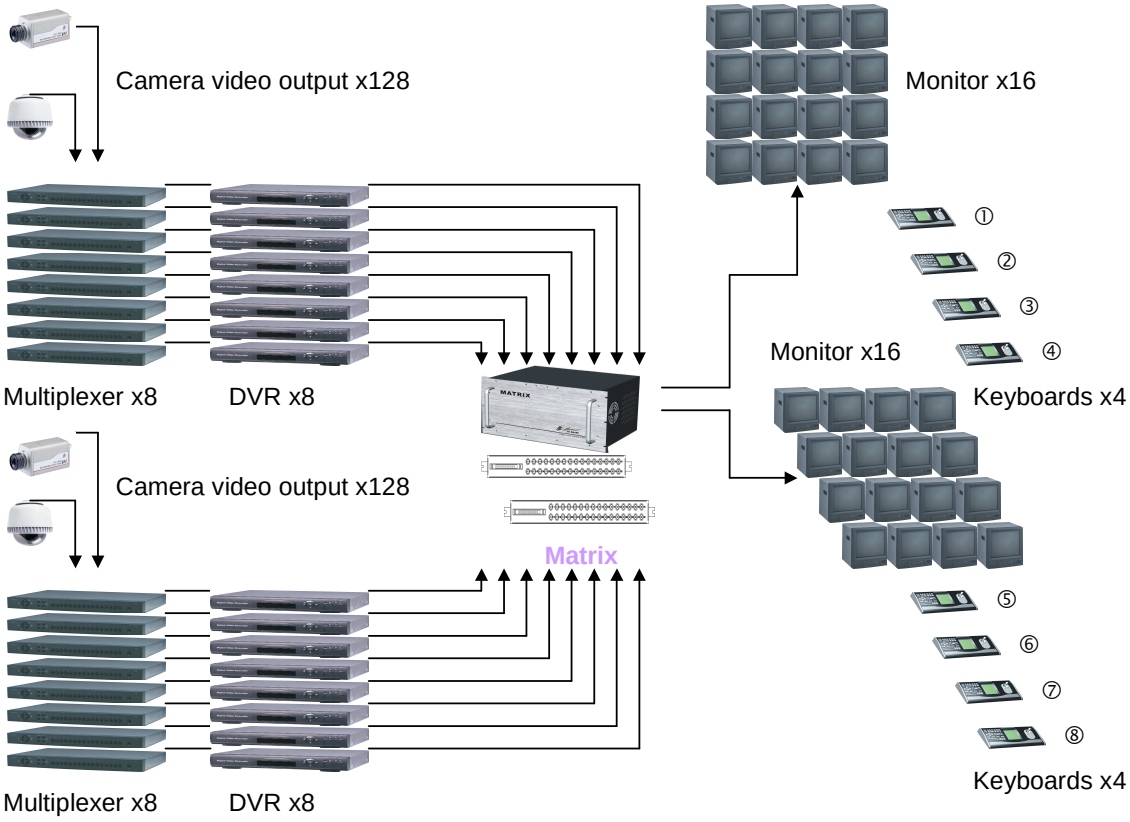
MATRIX: Device video cable connecting

☛ Matrix: The total maximum device video cable connecting.



———— is video cable.

✓ Video cable connecting define:

> Matrix mode is useful if video input more than 16 CHs. User can also depends on how big the video source input to consider expand PCI card and Video Input xU. User can collocation Multiplexer and DVR to display in full or quad split screen on the monitor. Matrix video input connecting is

> Matrix Video Input xU and Expand Video Input x1U:

The standard Matrix device is a main Matrix machine(8 / 16 / 32 monitor out optional). Video Input x1U. Expand Video Input x1U. Users need to consider camera video source in the place and environment, the system is going to be small or large? So user can make purchase expand PCI card. There are 7 expand PCI card can be added. 1 expand PCI follows a Video Input x1U.

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PS.

1. Each Video Input x1U can import x32 CH in.
2. Expand Video Input x1U is static. No more expand. x16 CH maximum video input.

MATRIX: Function Statement

Function:

1. 8 / 16 / 32 Monitor Out (Optional)
2. Video Input Expand. Maximum 256 video input. (PCI Card Optional)
3. RS-485 Port x 16. For command control.
4. Control Keyboard x8. Multi user control. Maximum x 32-users control.
5. HISHARP / PELCO-D / PELCO-P / LILIN Protocol
6. Alarm In / Relay: Minimum x8. Maximum x256.
7. Camera Title Setup. (English)
8. Expand PCI Card Hot insert and pull out.
9. RS-485 interface link for control keyboard, multiplexer. DVR, and P/T/Z Dome.
10. P/T/Z Dome maximum control x256.
11. Multiplexer maximum control x16 / DVR maximum control x16.

Specifications:

Model: 45208 / 45216 / 45232

>Video Input:

Mini. 32 channels, extendable to Max. 256 channels, BNC connector

Standard 1U, each contains 32 signals.

(Input either directly from camera or from multiplexer looping)

>Expand Video Input:

Standard 1U, each contains 16 video sources from multiplexer/DVR.

>Monitor Out:

8/16/32 Monitoring out(Optional)

Quad: Full, 4/9/16 screen (depends on multiplexer type)

Enlarge: Live/DVR Zoom in x 2 (depends on multiplexer and DVR type)

Monitor: Auto Sequence

>Interface:

RS232: RS232 interface for system data transfer set up

RS485: RS485 for Interface Device control link

>Alarm:

Input: Mini. 8 alarm input, expand to max. 256-alarm input

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Relay: Mini. 8 relay output, expand to max. 256 relay output

Alarm Relay Mode: Relay arrangement. Monitor Display, Preset Display, DVR Record.

>Title Display: Monitor Number, Video Title, Alarm Title, Relay Title, Time-Date.

>Video System: NTSC / PAL

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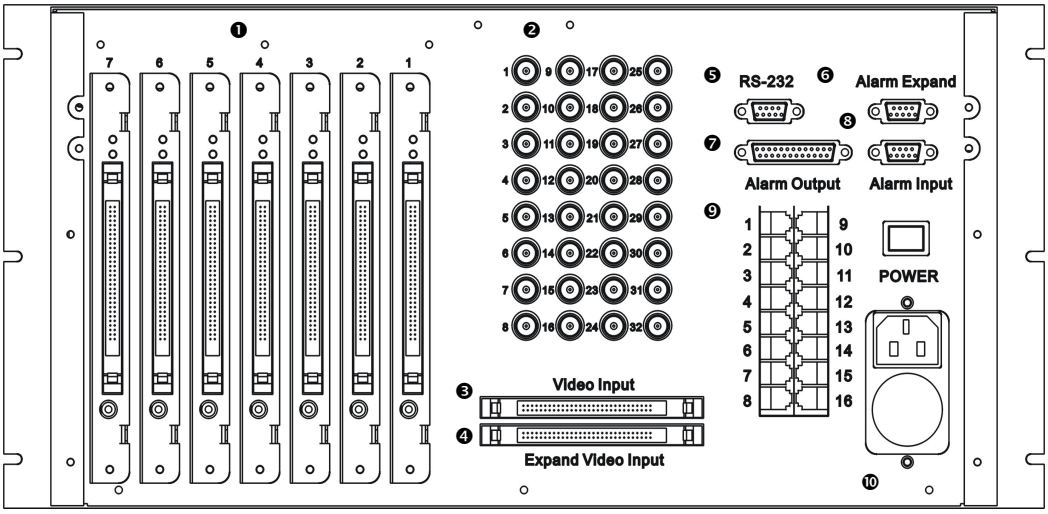
>Power: AC 110~240V

MATRIX: The Rear Panel



❶ Expand PCI card

❷ Monitor BNC output

❸ Video Input

❹ Expand Video Input

❺ RS-232

❻ Alarm Expand

❼ Alarm Output

❽ Alarm Input

❾ RS-458

❿ Power code

MATRIX: Video input and Expand Video Input x2U

Video Input x1U. Total is x32 CH input. Video source from MUX video looping.

Every time add the expand card equal add the Video Input x1U.

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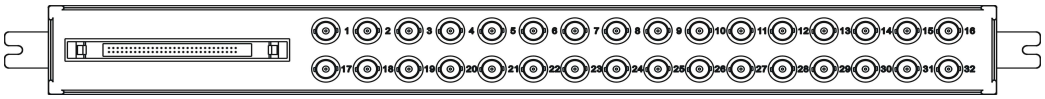
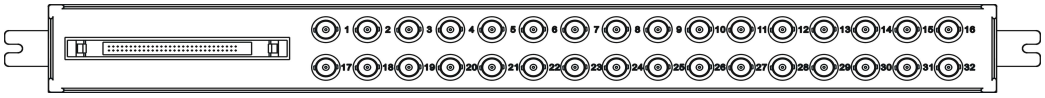


Expand Video Input x1U. Total is x16 video input. Video source from MUX or DVR Monitor Out.

Other x16 CH Reserve.



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PS. This Expand Video Input x 1U is static. User cannot expand.

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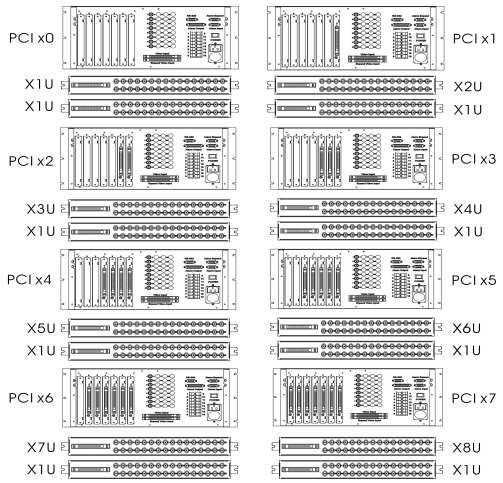
MATRIX: Expand PCI Card and Video Input xU collocation



Matrix 8 monitor out

Standard:

Expand PCI Card: x0

Video Input: x 1U. x32 CH input

Expand Video Input: x1U. x16CH input

Expanding:

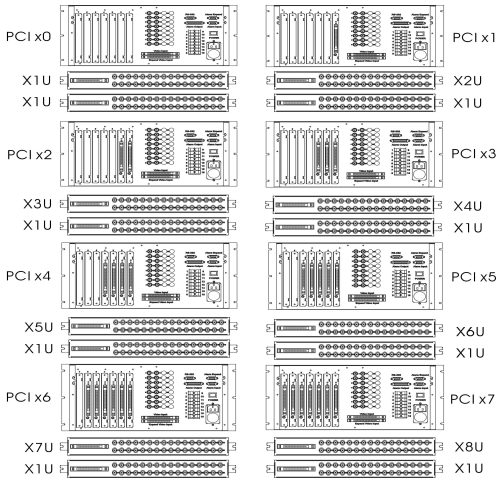
PCI card: Expand up to 7 PCI card

Video Input x1U follows 1 PCI card

Total is Video Input x8U

Expand Video Input x1U is static.

It cannot expand.



Matrix 16 monitor out

Standard:

Expand PCI Card: x0

Video Input: x 1U. x32CH input

Expand Video Input: x1U x16CH input

Expanding:

PCI card: Expand up to 7 PCI card

Video Input x1U follows 1 PCI card

Total is Video Input x8U

Expand Video Input x1U is static.

It cannot expand.

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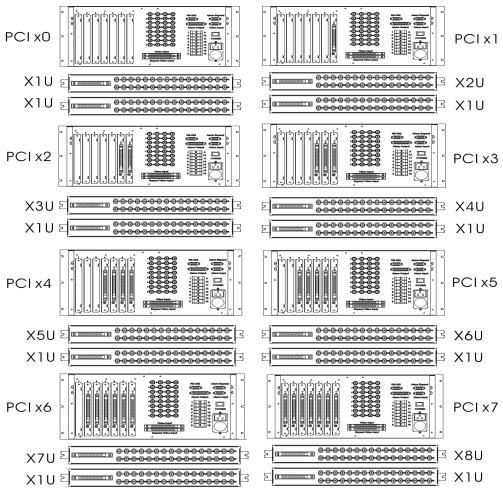

Matrix 32 monitor out

Standard:

Expand PCI Card: x0

Video Input: x 1U

Expand Video Input: x1U

Expanding:

PCI card: Expand up to 7 PCI card

Video Input x1U follows 1 PCI card

Total is Video Input x8U

Expand Video Input x1U is static.

It cannot expand.

Back to MENU

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MATRIX: Rear Panel / Video Input / Expand Video Input Define

Interface \ Matrix	Matrix 8 monitor out	Matrix 16 monitor out	Matrix 32 monitor out
Matrix Rear Panel BNC Connector	Smallest: 8 Channel Monitor output	Medium: 16 Channel Monitor output	Largest: 32 Channel Monitor Output
Video Input IDE Interface	Rear panel of Matrix Video Input IDE connects to Video Input x1U IDE		
Expand Video Input IDE Interface	Expand Video Input IDEx 1. Expand Video Input x1U		
Expand PCI	Maximum 7 PCI card can expand. One Video Input follows an expand PCI card.		
RS-232	PC RS232 interface connect to Matrix to transfer system data.		
Alarm Input	Minimum 8 Alarm input. Maximum 256 Alarm input.		
Alarm Output	Minimum 8 Relay. Maximum 256 Relay.		
Alarm Expand	Standard is Minimum 8 Alarm input and 8 Relay. Alarm Expand up to 256 input and 256 Relay.		
RS-458	Total x16 ports. 1~8 port connect control keyboard. 9~15 port connect P/T/Z Dome. 16 port connect Multiplexer and DVR.		
Power Code	Power code connecting and turn on/off switcher		
Video Input x1U	Video source from camera input directly or from Multiplexer video looping. Each Video Input x1U allows x32CH input. Total maximum Video Input is x8U. Video input collocation can be: 32/48/64/80/96/112/128/144/160/176/192/208/224/240/256 CH.		
Expand Video Input	Total video input is x16CH. Video source from Multiplexer or DVR Monitor Out. The others x16CH input is reserve.		

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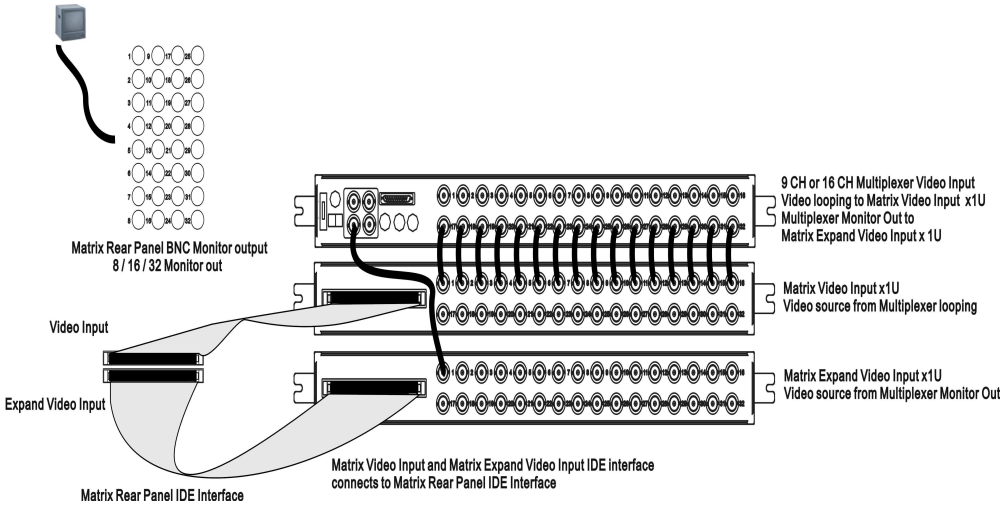
MATRIX: Video input xU connect collocation

Example 1:

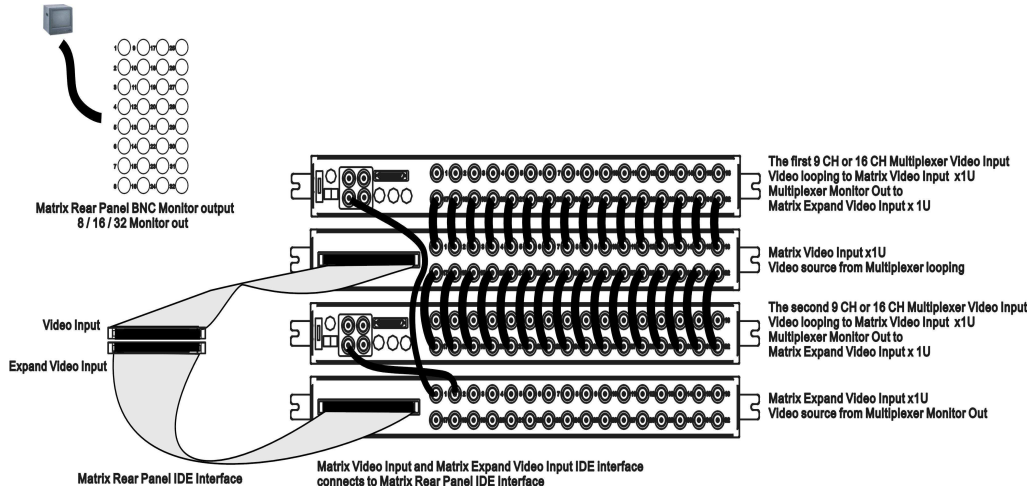
x16 CH video input. Camera video out connect to Multiplexer video in. x16 video looping to Video input x1U. Multiplexer monitor out to Expand Video In x1U.

Every Video In x1U can be input x32CH.


Matrix Rear Panel BNC Monitor output
8 / 16 / 32 Monitor out
9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Video Input x1U
Video source from Multiplexer looping
Matrix Expand Video Input x1U
Video source from Multiplexer Monitor Out
Video Input
Expand Video Input
Matrix Video Input and Matrix Expand Video Input IDE interface
connects to Matrix Rear Panel IDE Interface
Matrix Rear Panel IDE Interface

Example 2:

x32 CH video input. Camera video put connect to Multiplexer x2 video in. Total video in is x32. x32 video looping to Video In x1U. Multiplexer x2 monitor out to Expand Video In x1U.


Matrix Rear Panel BNC Monitor output
8 / 16 / 32 Monitor out
The first 9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Video Input x1U
Video source from Multiplexer looping
The second 9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Expand Video Input x1U
Video source from Multiplexer Monitor Out
Video Input
Expand Video Input
Matrix Video Input and Matrix Expand Video Input IDE interface
connects to Matrix Rear Panel IDE Interface
Matrix Rear Panel IDE Interface

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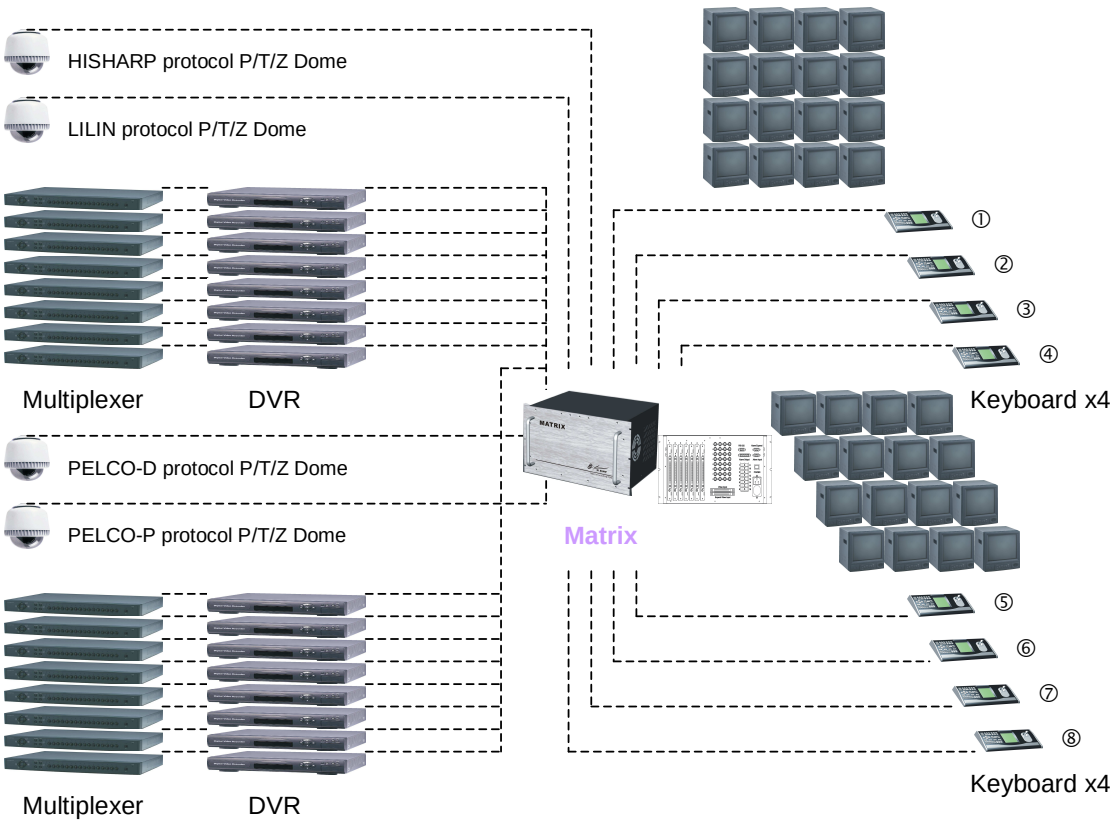
PS: Please see the reference Additional: MATRIX Video Input / Expand Video Input xU collocation.

MATRIX System: All Device control cable connecting

☛ Matrix: The total maximum device control cable connecting.



------ is RS-485 control cable.

✓ **RS-485 control define:**

Total is 16 RS485 ports of Matrix rear panel. 1~8 ports are for control keyboard RS485, maximum is 8 keyboards. 9~15 ports are for P/TZ Domes. Current there are HISHARP; PELCO-D; PELCO-P and LILIN can choose. 16 port is for Multiplexer and DVR RS485. Each device must have their own ID.

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All Device RS-458 Interface

☞ **RS-485 Port of each Device:**

Matrix RS-485 Port. Total is 16.

P/T/Z Dome RS-485, User need to check (T+/T-) pin define.

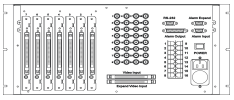
LCD Control Keyboard art. 45290 RS-RS485 PORT 1 and PORT 2..

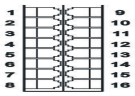
9CH / 16 CH Multiplexer RS-485 PORT 1 and PORT 2.

1 CH DVR RS-485 IN and RS-485 OUT.

4 CH DVR RS-485 (+/-) pin define.

Matrix art. 45208-45216-45232/ RS-485:





Pin Define :
3: Data +
4: Data -

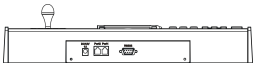
P/T/Z Dome / RS485:

User can make a RS485(RJ11) connector or

bare wire connect

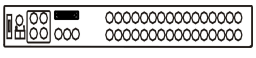
Pin Define:
3: Data + (T+)
4: Data – (T -)

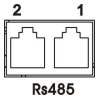
LCD Touch Panel Control Keyboard art. 45290/ RS-485:



Pin Define:
3: Data +
4: Data -

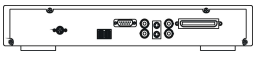
9 CH and 16 CH / RS-485:





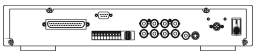
Pin Define :
3: Data +
4: Data -

1 CH DVR / RS-485:



Pin Define:
3: Data +
4: Data -

4 CH DVR / RS-485:



Pin Define:
Data +
Data -

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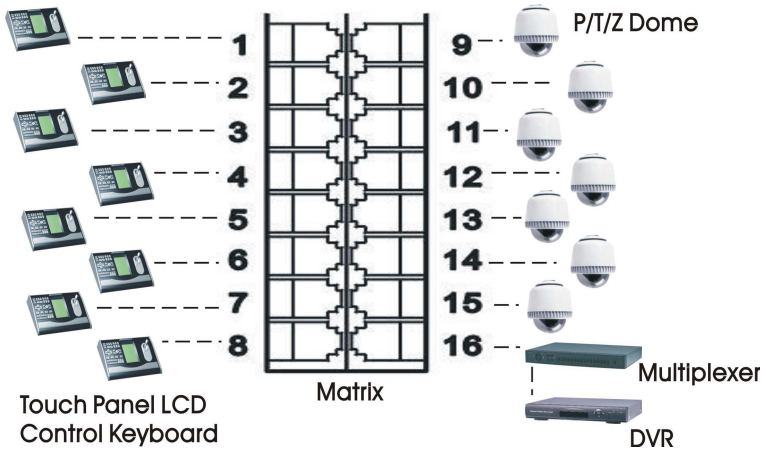
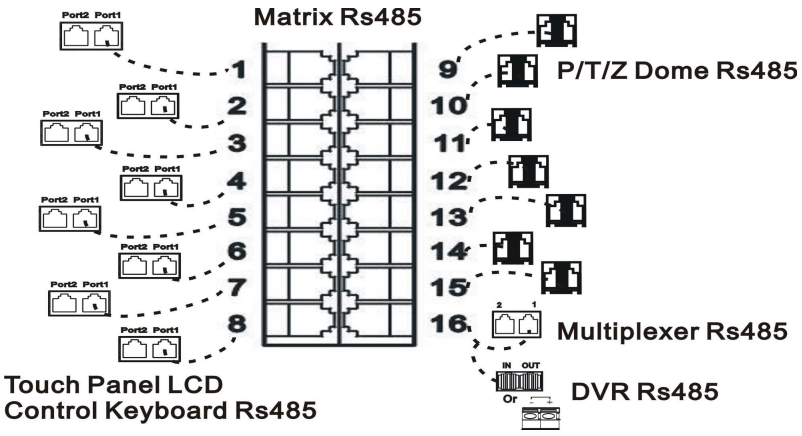
All Device connecting

All devices:



All devices RS-485:



P.S:

Matrix 1~8 RS485 connects with control keyboard port 1. 9~15 RS485 connects to P/T/Z dome.

16 RS485 connects to Multiplexer and DVR.

1. P/T/Z dome

-- Protocol: HISHARP / PELCO-D / PELCO-P / LILIN

PS. The P/T/Z dome maximum controls, check the company specifications.

2. Multiplexer Notice: Multiplexer Protocol must be compatible.

-- 9 CH / 16 CH Multiplexer. Total connecter maximum is 16.

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3. DVR Notice: DVR Protocol must be compatible.

--1 CH / 4 CH DVR. Total connecter maximum is 16.

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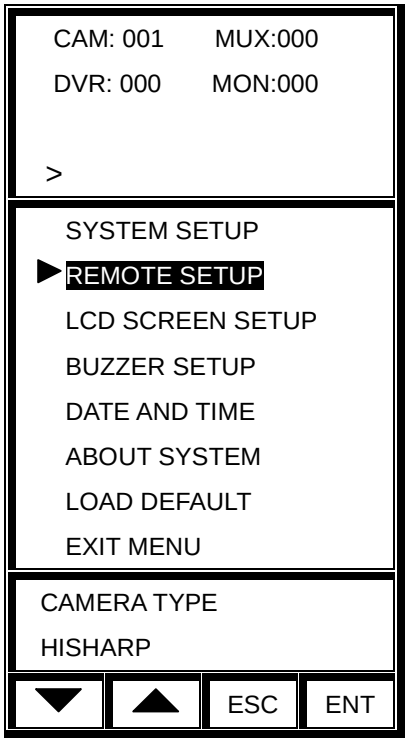
REMOTE SETUP (Remote Function Setup)



User can use touch pan ✎ double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲▼

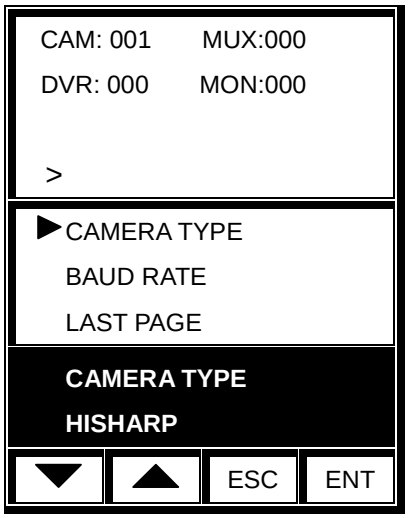
Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

REMOTE SETUP (Remote Function Setup)

Needs to setup if system includes only one control keyboard. (No connect to Matrix). User need to setup what P/T/Z protocol is connecting to control keyboard.

If control keyboard on Matrix mode, do not have to setup. It setups in PC Matrix Menu Wizard

Function mode menu page:



Function Setup:

1. CAMERA TYPE

- Choose the P/T/Z dome protocol.
  - ➢ HISHARP / PELCO-D / PELCO-P / LILIN

2. BAUD RATE

- Choose the P/T/Z dome baud rate setup.
  - ➢ 2400/4800/9600

✓ HISHARP, PELCO-D, PELCO-P, and LILIN baud rate is 9600.

3. LAST PAGE

- Choose back to the main menu.
  - ➢ Press ENT back to the main menu page.

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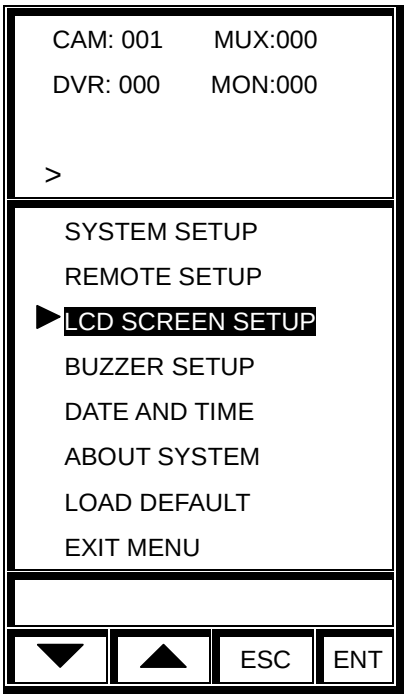
LCD SCREEN SETUP (LCD Panel setup)



User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

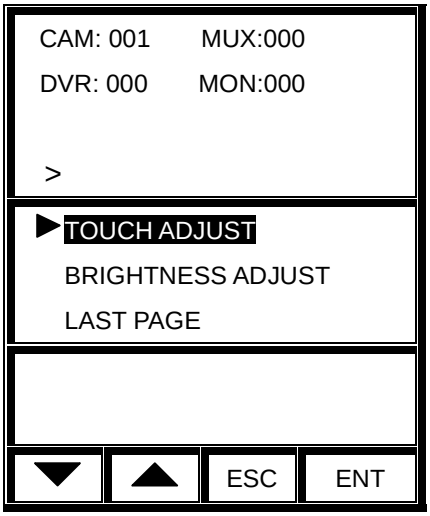
Or use the buttons on the keyboard, ▲▼

Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

LCD SCREEN SETUP (LCD Panel Setup)

Touch panel pan click position accuracy and LCD brightness adjustment setup.

Function mode menu page:



Function Setup:

1. TOUCH ADJUST
   - The touch panel position accuracy adjustment.
     - Touch Right-Bottom / Touch Left-Top
2. BRIGHTNESS ADJUST
   - LCD screen brightness adjustment.
     - 01~09.
3. LAST PAGE
   - Choose back to the main menu.
     - Press ENT back to the main menu page.

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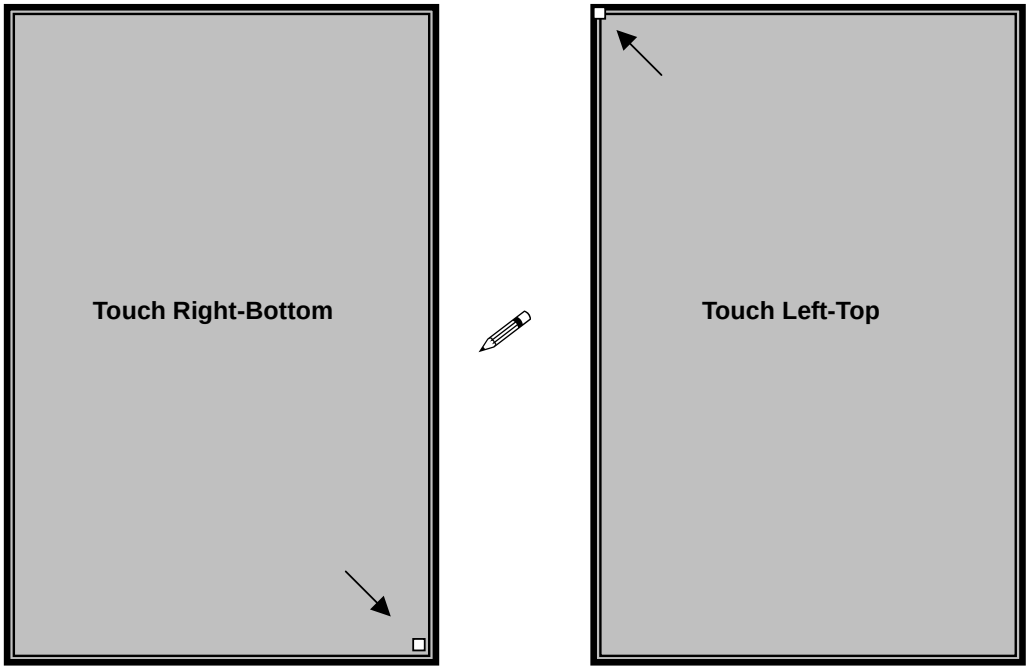
- **TOUCH ADJUST:** The touch panel position accuracy adjustment.



Touch Right-Bottom: Use touch pan to touch right bottom.

Touch Left-Top: Use touch pan to touch right bottom.

P.S.:

After finish TOUCH ADJUST, back to the P/T/Z dome menu page.

For example: Back to HISHARP protocol menu page:

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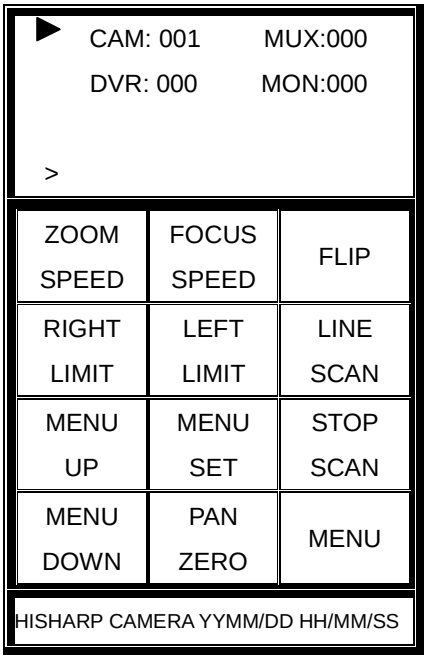

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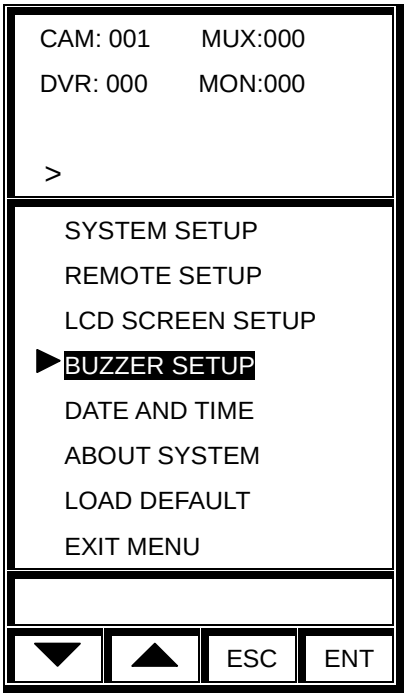
BUZZER SETUP (Buzzer Function Setup)



Function mode menu page:

User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲▼

Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

BUZZER SETUP (Buzzer Function Setup)

User chooses to turn on or off buzzer.

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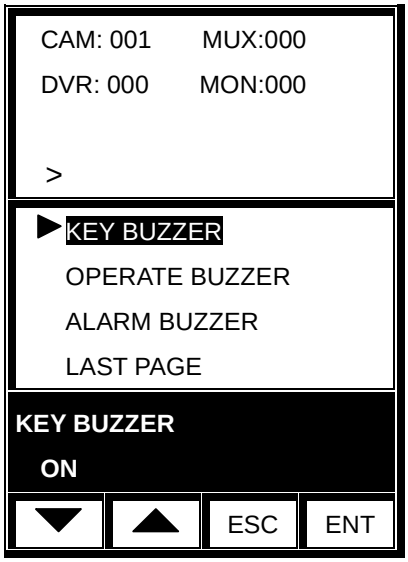

Function Setup:

1. KEY BUZZER.

- Choose key buzzer on or off.
  - ON / OFF

2. OPERATE BUZZER.

- Choose operate buzzer on or off.
  - ON / OFF

3. ALARM BUZZER.

- Choose alarm buzzer on or off.
  - ON / OFF

4. LAST PAGE.

- Choose back to the main menu.
  - Press ENT back to the main menu page.

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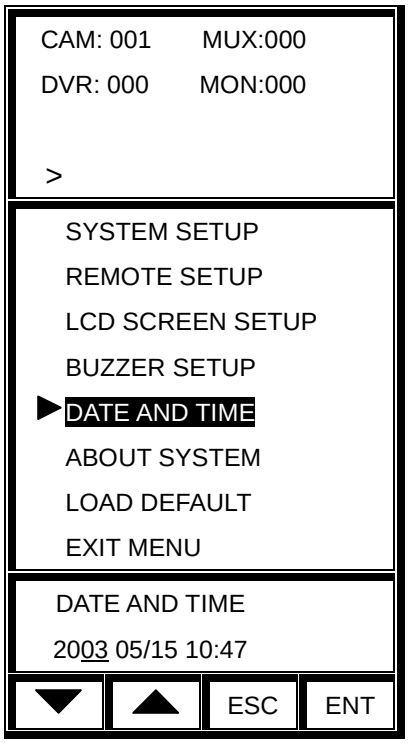
DATE AND TIME (Date / Time Setup)



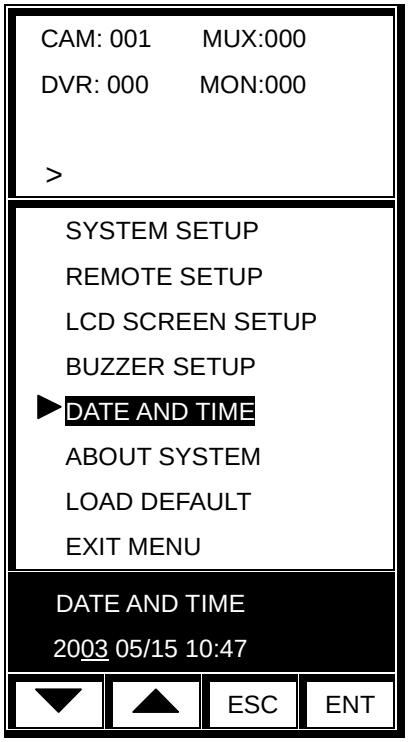
User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲▼◀ ▶ Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

DATE AND TIME (Date and time setup)

Local area date and time setup

Function mode menu page:



Function Setup:

Use up/down/left/right key ◀ ▲ ▼ ▶ to change date and time.

Left and right key ◀ ▶ is for moving the item position.

Up and down key ▲ ▼ is for change value.

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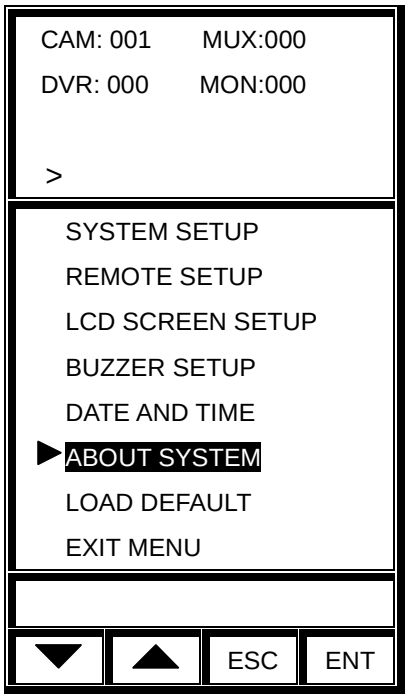
ABOUT SYSTEM (System Information)



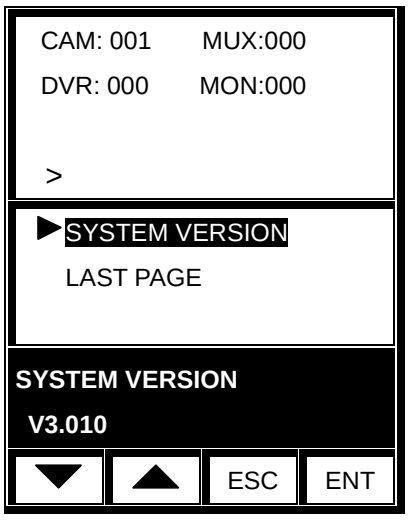
User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲▼
Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

ABOUT SYSTEM (System Information)

System Version displaying. User cannot update it.

Function mode menu page:



Function Setup:

1. SYSTEM VERSION.
   - Displaying the system version.
2. LAST PAGE.
   - Choose back to the main menu.
     - Press ENT back to the main menu page.

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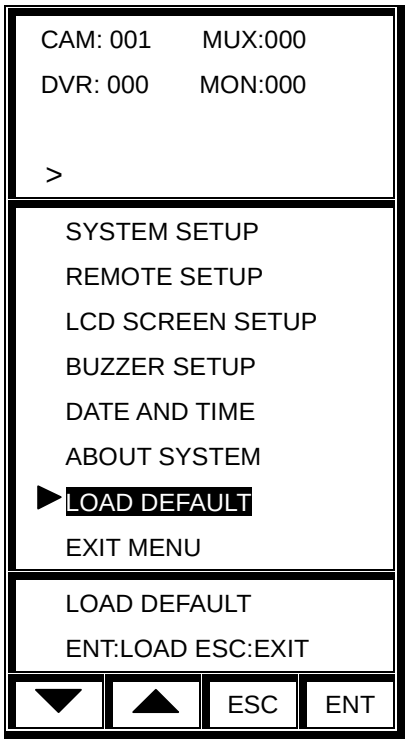
LOAD DEFAULT (Factory Default Reload)



User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

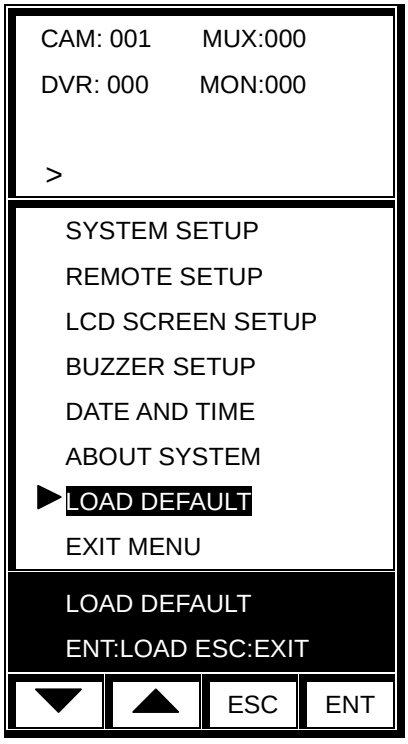
Or use the buttons on the keyboard, ▲▼

Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

LOAD DEFAULT (Factory Default Reload)

Users choose this function to load factory default.

Function mode menu page:



Function Setup:

1. ENT: LOAD.
   - Reload Confirm.
     - Press ENT to start factory reload
2. OPERATE BUZZER.
   - ESC: EXIT.
     - Press ESC to exit function setup.

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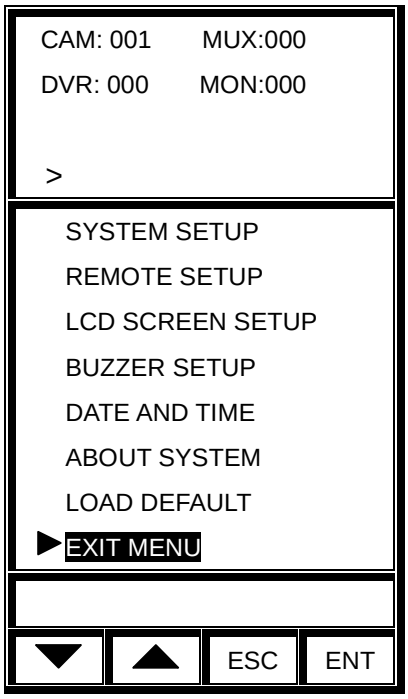
EXIT MENU (Menu Exit)



User can use touch pan double click the function item, with the touch panel LCD▲▼ ESC ENT to choose which function setup is going to in.

Or use the buttons on the keyboard, ▲▼
Press ENT to start sub-menu. **Needs to press ENT again the mode window would become blink, use Up/Down key to change values.** Press ESC until back to P/T/Z dome menu page or choose EXIT MENU to back P/T/Z dome menu page.

EXIT MENU (Menu Exit)

Users choose to exit menu after all function setup done or function setup abandon.

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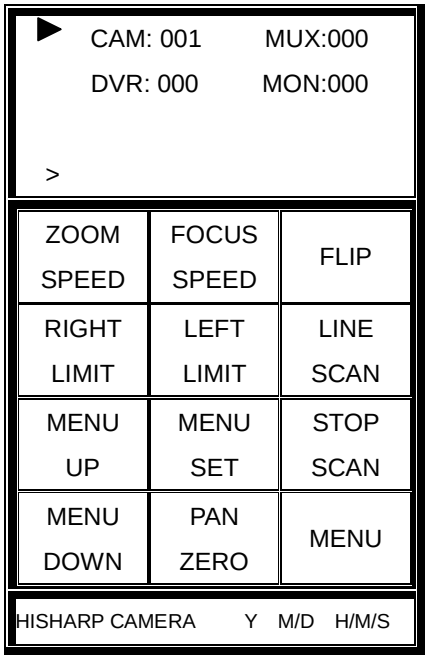
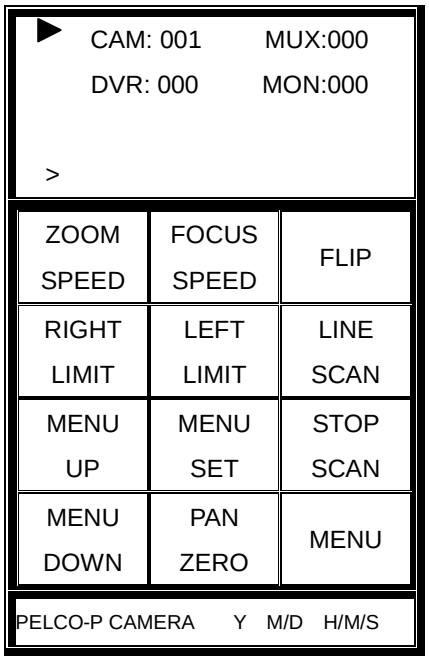
Touch Panel LCD Type Control Keyboard: Call Device and control

Call Cam **CAMERA ID + CAM**

HISHARP protocol P/T/Z Dome function menu page:



PELCO-P protocol P/T/Z Dome function menu page:



Icon Command	Function Define
CAM: 000	CAM ID. After input CAM ID, CAM ID would display.
MUX: 000	MUX ID. After input MUX ID, MUX ID would display
DVR: 000	DVR ID. After input DVR ID,, DVR ID would display
MON: 000	MON ID. After input CAM ID, MON ID would display
ZOOM SPEED	Image zoom in/out speed setup
FOCUS SPEED	Image focus speed setup
FLIP	Auto 180 rotate
RIGHT LIMIT	Line scan right position setup
LEFT LIMIT	Line scan left position setup
LINE SCAN	Start line scan
MENU UP	OSD menu direction UP
MENU SET	OSD menu function value confirm
STOP SCAN	Stop line scan
MENU DOWN	OSD menu direction Down
PAN ZERO	If the preset position is not correct, pan zero to reset.
MENU	Go to P/T/Z Dome OSD function menu setup
HISHARP CAMERA	HISHARP Protocol P/TZ Dome
Y M/D H/M/S	Local area date and time display

PS: HISHARP and PELCO-P same menu page

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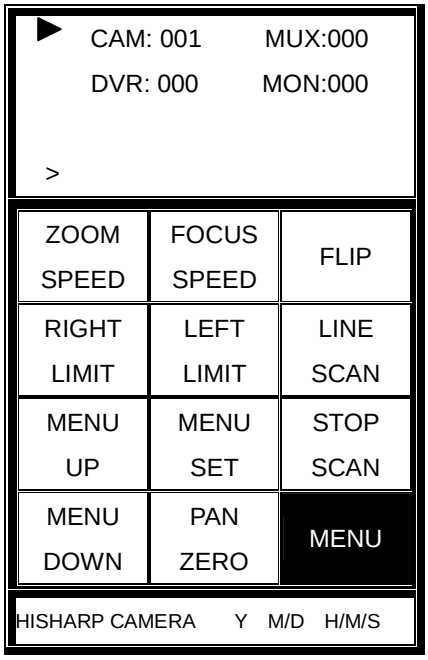
P/T/Z Dome function setup

Click MENU to start P/T/Z Dome function setup:



Use MENU UP / MENU DOWN / MENU SET to move items / change values / values confirm.

P/T/Z Dome OSD menu function:

Speed Dome OSD Menu	600	610	620
1.FOCUS------Auto/Manual!	○	○	○
2.WB----------Auto/R.Gain/B.Gain	○	○	○
3.SHTTR-----Auto/Manual!	○	○	○
4.SBLC-------Off/On!	○	○	○
5.FREEZ------Disable/enable	×	○	○
6.NIGHT------Auto/Manual!	×	○	○
7.SHARP-----Default/Adjust!	○	○	○
8.neg----------On/Off!	○	○	○
9.Privecy Zone---------Enable	○	○	○
10. Save---------Yes/No	○	○	○

PS: O: Function includes. X: Function does not include. More detail reads the P/T/Z Dome

LILIN protocol P/T/Z Dome function menu page:

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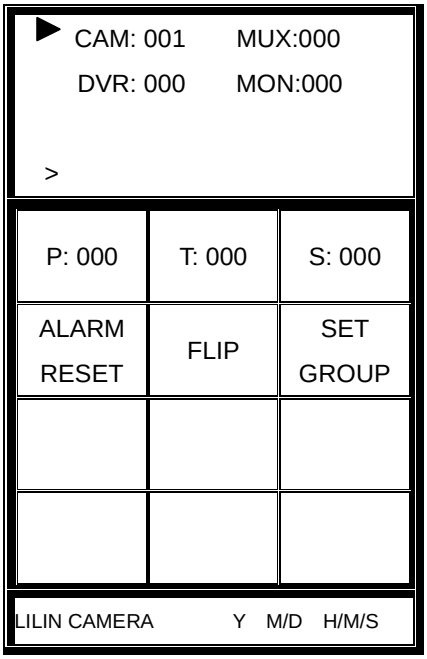

Icon Command	Function Define
CAM: 000	CAM ID. After input CAM ID, CAM ID would display.
MUX: 000	MUX ID. After input MUX ID, MUX ID would display
DVR: 000	DVR ID. After input DVR ID,, DVR ID would display
MON: 000	MON ID. After input CAM ID, MON ID would display
P: 000	Preset ID
T: 000	Dwell time
S: 000	Moving speed
ALARM RESET	Alarm reset function
FLIP	Auto 180。Rotating
SET GROUP	Preset position group
LILIN CAMERA	LILIN Protocol P/TZ Dome
Y M/D H/M/S	Local area date and time display

PS.

1. More detail reads the LILIN P/T/Z Dome product manual book.
2. PELCO-D protocol current reserve

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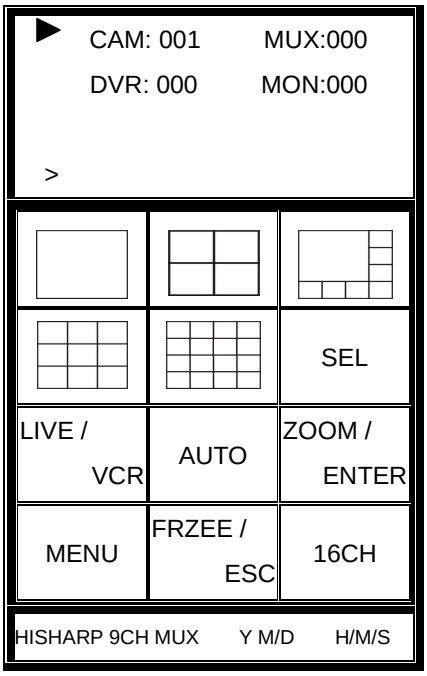
Call MUX **Multiplexer ID + MUX**

9 CH Multiplexer Function Menu Page:



Icon	Function Define
	Full screen display
	4 quad split screen display
	8 quad split screen display
	9 quad split screen display
	16 quad split screen display
SEL	Channel select to change
LIVE / VCR	Live display mode or VCR playback mode switch
AUTO	Screen auto sequence mode
ZOOM / ENTER	2x2 Zoom or Enter in menu setup
MENU	Menu setup or Exit without saving
FRZEE / ESC	Freeze display in live mode or Esc in menu setup
16CH	Go to 16 CH Multiplexer menu page
HISHARP 9CH MUX YYYY MM/DD HH//MM/SS 9 CH MUX menu page and date/time display	

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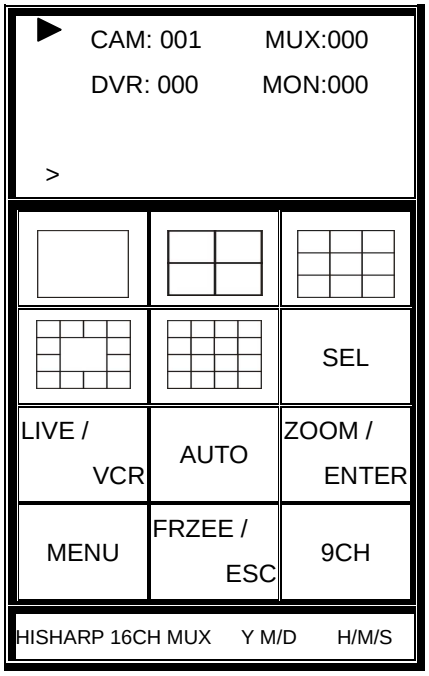
9 CH Multiplexer Function Menu Page:



Icon	Function Define
	Full screen display
	4 quad split screen display
	9 quad split screen display
	13 quad split screen display
	16 quad split screen display
SEL	Channel select to change
LIVE / VCR	Live display mode or VCR playback mode switch
AUTO	Screen auto sequence mode
ZOOM / ENTER	2x2 Zoom or Enter in menu setup
MENU	Menu setup or Exit without saving
FRZEE / ESC	Freeze display in live mode or Esc in menu setup
9CH	Go to 9 CH Multiplexer menu page
HISHARP 16CH MUXYYYYMM/DD HH//MM/SS 16 CH MUX menu page and date/time display	

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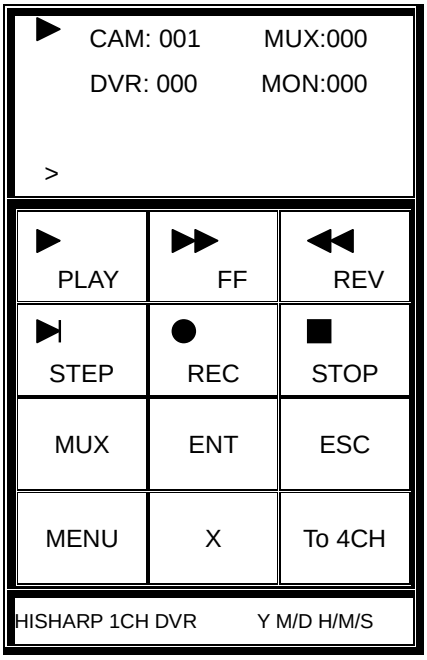
Call DVR **DVR ID + DVR**

1CH DVR Function Menu Page:



Icon	Function Define
▶ PLAY	Image playback. From the current time backwards
▶▶ FF	Forward search button. (Adjust playback speed)
◀◀ REW	Reverse search button (Adjust playback speed)
▶| STEP	Image step playback
● REC	Image recording
■ STOP	Stop image playback
MUX	Mux / Rec In / Play Out image change
ENT	Menu function confirm (Enter)
ESC	DVR menu Function exit
MENU	1 CH DVR menu setup
To 4 CH	Go to 4 CH DVR menu page
HISHARP 1 CH DVR YY MM/DD HH//MM/SS 1 CH DVR menu page and date/time display	

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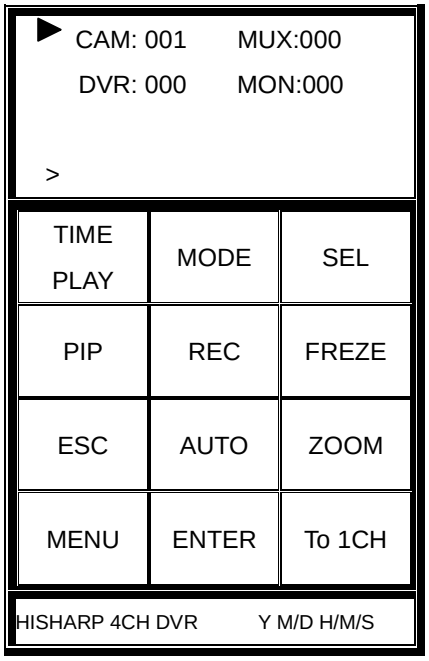
4 CH DVR Function Menu Page:



Icon	Function Define
TIME PLAY	Playback time search
MODE	4 quarterly split screen mode
SEL	Channel select to change
PIP	Picture in picture mode
REC	Image recording
FREZE	Picture freeze mode
ESC	Key lock function or menu function exit
AUTO	Auto sequence mode
ZOOM	Picture zoom in mode
MENU	4 CH DVR menu setup
ENTER	Menu function confirm (Enter)
To 1CH	Go to 1 CH DVR menu page
HISHARP 1 CH DVR YYYY MM/DD HH/MM/SS 1 CH DVR menu page and date/time display	

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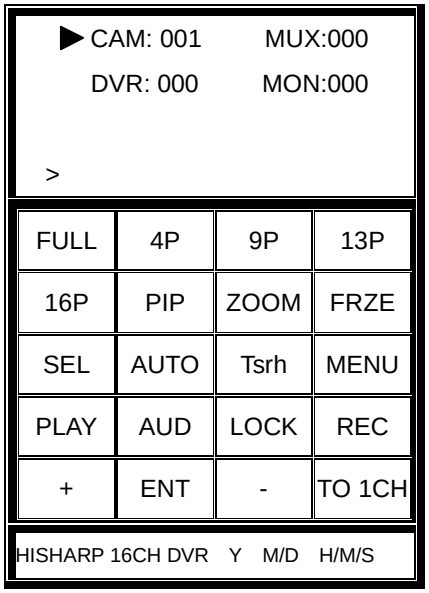
16CH DVR Function Menu Page:



Notice:

Direction key /UP: For record stop or playback stop.

Direction key /Down: For playback pause.

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Function Define:

FULL: Full screen display. Choose Channel and press FULL. Ex: CH 6 + FULL

4P:	4 quad split screen display
9P:	9 quad split screen display
13P:	13 quad split screen display
16P:	16 quad split screen display
PIP:	Picture in picture mode display
ZOOM:	Picture zoom in mode display
FRZE: Freeze.	Picture freeze mode display
SEL: SELECT.	Channels select to change
AUTO:	Auto sequence mode display
Tsrh:	Time-Search playback.
MENU:	16 CH DVR menu setup
PLAY:	Image playback. From the current time backwards
AUD: Audio.	Audio output channel change
LOCK:	Key lock.
REC.	DVR record mode on
+:	Values change button
ENT:	Enter for confirm
-:	Values change button
To 1 CH:	Go to 1 CH DVR menu page

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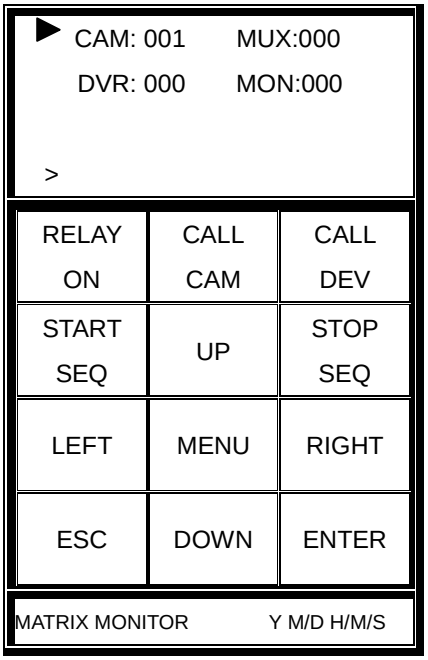
Call Monitor **MONITOR ID + MON**

Monitor Function Menu Page:



Icon	Function Define
RELAY ON	Alarm Relay function “ON”
CALL CAM	Call Camera
CALL DEV	Call Device. Multiplexer or DVR.
START SEQ	Start monitor screen auto sequence
UP	Direction UP
STOP SEQ	Stop monitor screen auto sequence
LEFT	Direction Left
MENU	Monitor function menu setup
RIGHT	Direction Right
ESC	Exit monitor function menu setup
DOWN	Direction Down
ENTER	Menu function values setup confirm
MATRIX MONITOR YYYY MM/DD HH/MM/SS Matrix Monitor menu page and date/time display	

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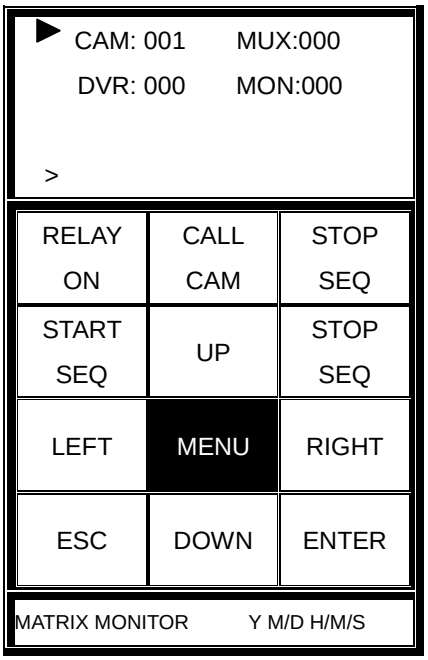
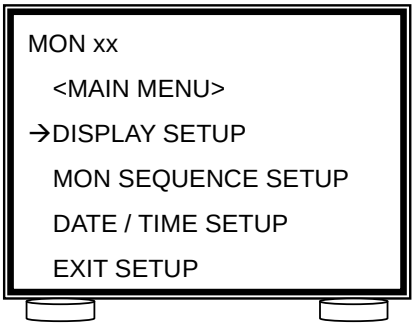
Monitor function setup menu:



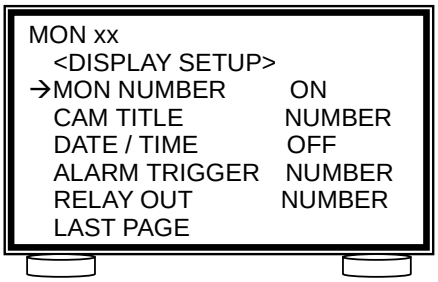
Monitor function setup menu:



Icon Command	Function Define
MON xx	Monitor Number
DISPLAY SETUP	Display setup
MON SEQUENCE SETUP	Monitor sequence setup
DATE / TIME SETUP	Date and Time setup
EXIT SETUP	Menu exit

Back to MENU

> DISPLAY SETUP:



Use UP / DOWN to move function item.

ENTER, item blink. Use UP / Down to change values. After done, press ENTER or ESC to exit.

Press ESC to back last page or exit menu.

Command	Function Define
MON NUMBER	Display monitor number? ON or OFF.
CAM TITLE	Camera title display type NUMBER/TITLE/OFF
DATE / TIME	Date and Time display type DATE/TIME/ALL/OFF
ALARM TRIGGER	Alarm trigger display type NUMBER/TITLE/OFF
RELAY OUT	Alarm relay display type NUMBER/TITLE/OFF
LAST PAGE	Back to last page

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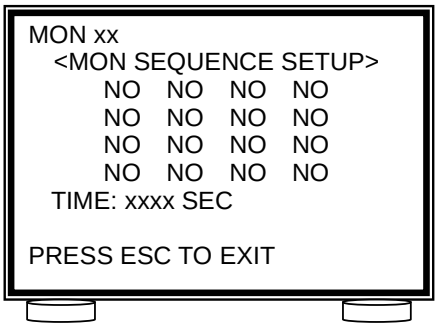
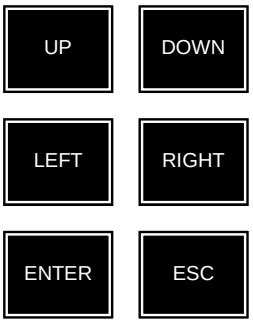
> MON SEQUENCE SETUP





Use UP / DOWN to move function item.

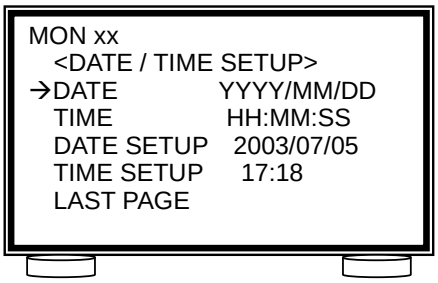
Item blinking movement.

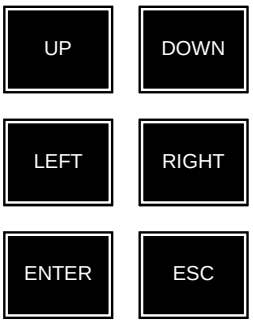
Press ENTER, item blinking. Use Up / Down to change value. After done, press ENTER or ESC. ESC to back last page or exit function menu.

Command	Function Define
NO / 1~	Auto monitor sequence setup. Which monitor? Or NO.
TIME:xxxx SEC	Time sequence setup
PRESS ESC TO EXIT	Press ESC to exit setup

Back to MENU

> DATE / TIME SETUP





Use UP / DOWN to move function item.

Item blinking movement.

Press ENTER, item blinking. Use Up / Down to change value. After done, press ENTER or ESC. ESC to back last page or exit function menu.

Command	Function Define
DATE	Date display format: YYYY/MM/DD, YY/MM/DD, MM/DD/YY, MM/DD
TIME	Time display format: HH/MM/SS, HH/MM
DATE SETUP	Local area date setup: xxxx/xx/xx
TIME SETUP	Local area time setup: xx/xx
LAST PAGE	Back to last page

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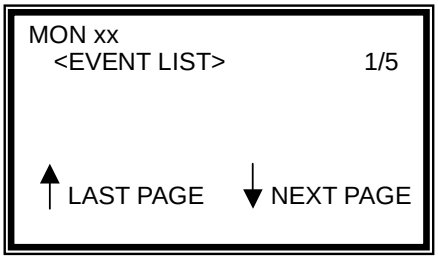
>EVENT LIST



Use UP / DOWN to move function item.

Press ENTER, item blinking.
Use Up / Down to change value.
After done, press ENTER or ESC.
ESC to back last page or exit function menu.

Alarm list total is 5 pages. 6 items in each page.

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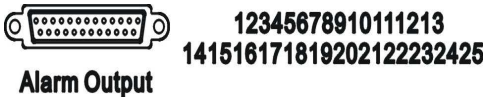
Additional: Alarm In / Relay and RS232 Pin Define

Alarm Input

1. Alarm In 1
2. Alarm In 2
3. Alarm In 3
4. Alarm In 4
5. Alarm In 5
6. Alarm In 6
7. Alarm In 7
8. Alarm In 8
9. DGND

Alarm Output



1. Alarm Out NC
2. Alarm Out NC
3. Alarm Out NC
4. Alarm Out NC
5. Alarm Out NC
6. Alarm Out NC
7. Alarm Out NC
8. Alarm Out NC
9. DGND
10. COMB 7
11. COMB 5
12. COMB 3
13. COMB 1
14. Alarm Out NO
15. Alarm Out NO
16. Alarm Out NO
17. Alarm Out NO
18. Alarm Out NO
19. Alarm Out NO
20. Alarm Out NO
21. Alarm Out NO
22. COMB 8
23. COMB 6
24. COMB 4
25. COMB 2

Alarm Expand

1. VCC 5
2. Data Load
3. EXT DEV CLK
4. Alarm Next out
5. VCC 5
6. GND
7. Alarm Last In
8. Alarm Out
9. GND

RS-232

1.
2. PC RXD
3. PC TDX
4.
5. DGND
6.
7.
8.
9.

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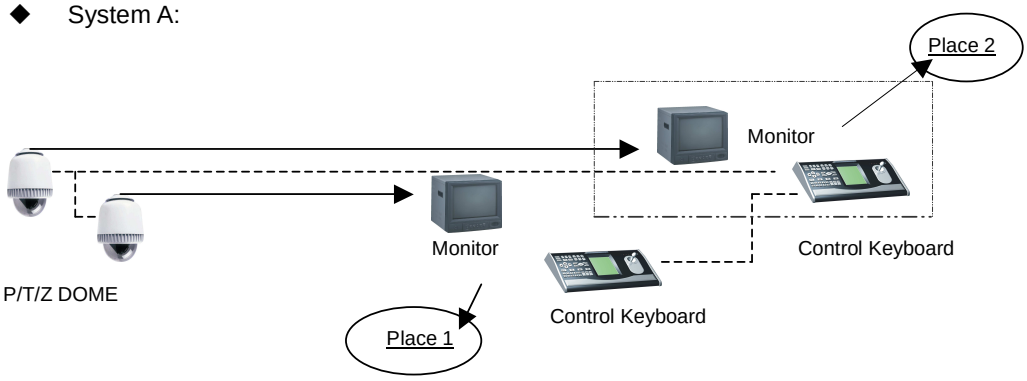
Additional: Why Matrix

Multi control keyboard or device system:

For examples:

◆ System A:

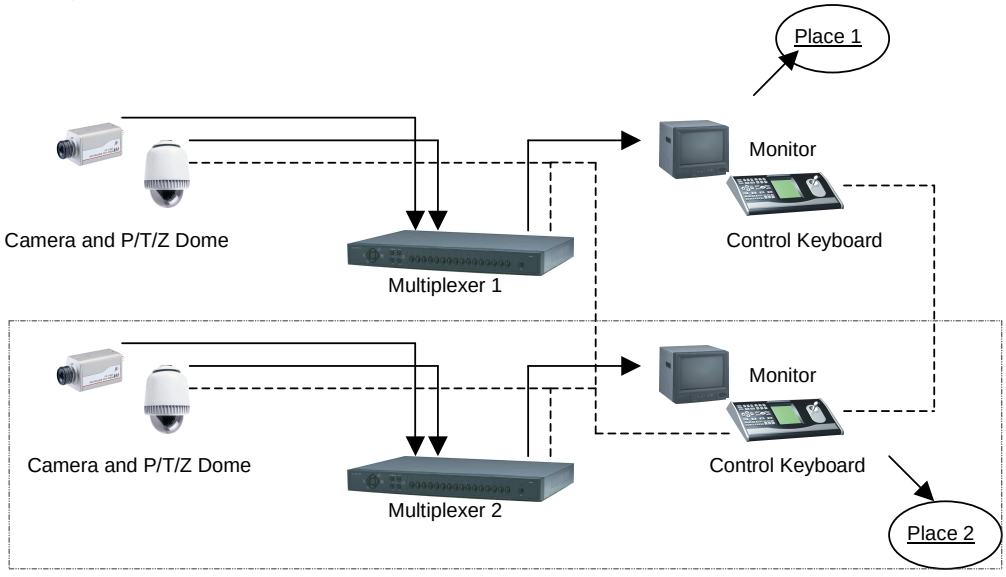


➢ System A Maximum device control:

Device	P/T/Z DOME	Control Keyboard
Maximum	X2	X2

* Monitor: Image viewer. Full screen display.

◆ System B:



➢ System B Maximum device control:

Device	P/T/Z DOME	Multiplexer	Control Keyboard
Maximum	X256	X16	X2

*Monitor: Image viewer. Full screen or quad split screen display by Multiplexer.

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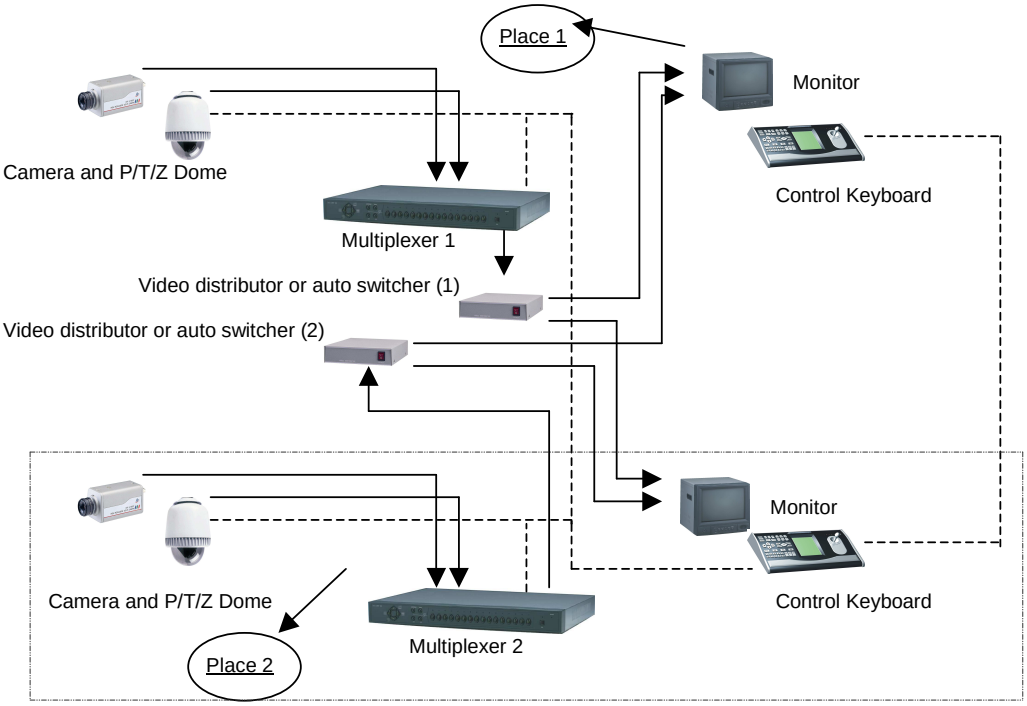
>Multi Mode Problem Notice:

Basically, check the multi mode last page, the system A and B structures are workable but please consider there is only one main monitor video output on multiplexer. If the master devices are in the place 1, the slave devices are in the place 2. How could porters with control keyboard in different location view pictures and control from different cameras?

✓ **Solution:**

User can install the image share device such as video distributor or video auto switcher etc. The system structure can be like below:



>But else:

Normally, through a video distributor connecting, ports can control cameras or P/T/Z dome from each control keyboard but they see the same image. We do not suggest this kind of solution. The best way is users can not only control P/T/Z dome but also see the each camera image. So they need MATRIX solution.

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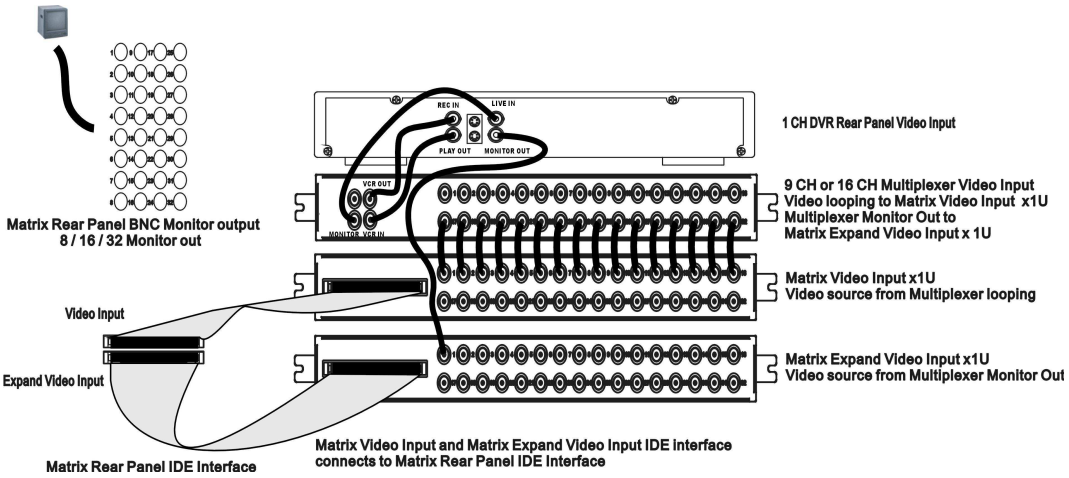
Additional: MATRIX Video Input / Expand Video Input xU collocation

Example 1:

x16 CH video input. Camera video out connect to Multiplexer video in. x16 video looping to Video input x1U. Multiplexer monitor out to Expand Video Input x1U. A DVR includes to system to record video image. MUX: VCR OUT→DVR: REC IN. MUX: VCR IN→DVR: PLAY OUT. MUX: MONITOR→DVR: LIVE IN. DVR: MONITOR OUT→Expand Video Input x1U.

PS. 1. Every Video In x1U can be input x32CH.

2. To consult video cable connecting of picture if a DVR is included.

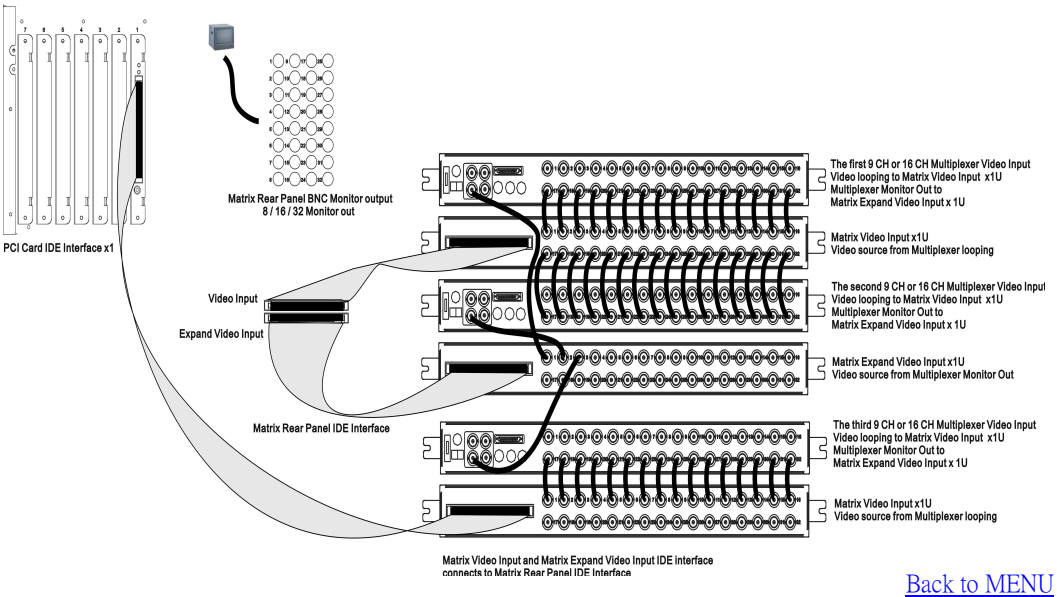

REC IN
LIVE IN
PLAY OUT
MONITOR OUT
VCR OUT
MONITOR VCR IN
1 CH DVR Rear Panel Video Input
9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Video Input x1U
Video source from Multiplexer looping
Matrix Expand Video Input x1U
Video source from Multiplexer Monitor Out
Matrix Rear Panel BNC Monitor output
8 / 16 / 32 Monitor out
Video Input
Expand Video Input
Matrix Rear Panel IDE Interface
Matrix Video Input and Matrix Expand Video Input IDE Interface
connects to Matrix Rear Panel IDE Interface

Example 2:

Expand PCI card x1, a Video Input x1U. 1 Vidoe Input follows an expand PCI card.

x48 CH video input. Camera video out connect to 3 Multiplexer video in. x48 video looping to Video Input x2U. 3 Multiplexer monitor out to Expand Video Input x1U. x48 CH already input, x16 CH video input is reserved. Because every Video input x1U can input x32 CH.

If user wants to input more video, needs to add an expan PCI card.


PCI Card IDE Interface x1
Matrix Rear Panel BNC Monitor output
8 / 16 / 32 Monitor out
Video Input
Expand Video Input
Matrix Rear Panel IDE Interface
The first 9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Video Input x1U
Video source from Multiplexer looping
The second 9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Expand Video Input x1U
Video source from Multiplexer Monitor Out
The third 9 CH or 16 CH Multiplexer Video Input
Video looping to Matrix Video Input x1U
Multiplexer Monitor Out to
Matrix Expand Video Input x 1U
Matrix Video Input x1U
Video source from Multiplexer looping
Matrix Video Input and Matrix Expand Video Input IDE Interface
connects to Matrix Rear Panel IDE Interface

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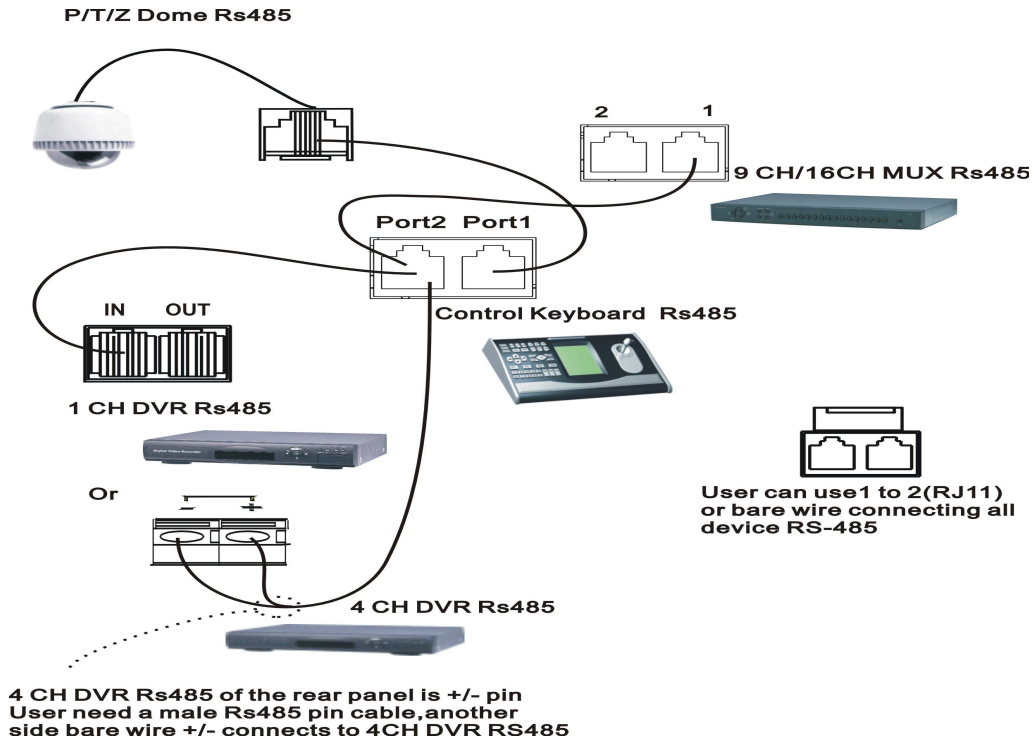
Additional: Control Keyboard Single mode connecting

All device connecting:


P/T/Z Dome Rs485
2
1
9 CH/16CH MUX Rs485
Port2 Port1
IN OUT
Control Keyboard Rs485
1 CH DVR Rs485
Or
User can use1 to 2(RJ11)
or bare wire connecting all
device RS-485
4 CH DVR Rs485
4 CH DVR Rs485 of the rear panel is +/- pin
User need a male Rs485 pin cable,another
side bare wire +/- connects to 4CH DVR RS485

PS. 1:

Single control keyboard mode. No more control keyboard can be connecting.

Except on Matrix mode, 8 control keyboard can be connecting. P/T/Z Dome connects to control keyboard RS485 PORT 1. Multiplexer and DVR always connects to control keyboard PORT 2.

PS. 2:

1. Control Keyboard PORT 1 connects to P/T/Z Dome RS485 control cable.
   Multiplexer and DVR connects to PORT 2.

2. Multiplexer PORT 1 and PORT 2 not interflow. Users only use PORT 1 to connect.
   PORT 2 does not use.

3. 1 CH DVR RS485 IN and OUT is interflow.

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4. 4 CH DVR RS485 is +/- pin.

Additional: P/T/Z Dome, Multiplexer, DVR remote function setup

All device control function please read the product manual book. All remote function must set correct, otherwise the device cannot control by control keyboard.

P/T/Z DOME

Normally the P/T/Z dome does not include the RS485 (RJ11 female), but it shows out the pin define. User read the product manual book to check the pin define (T+ / T-), and then make the RS-485 (RJ11 female).

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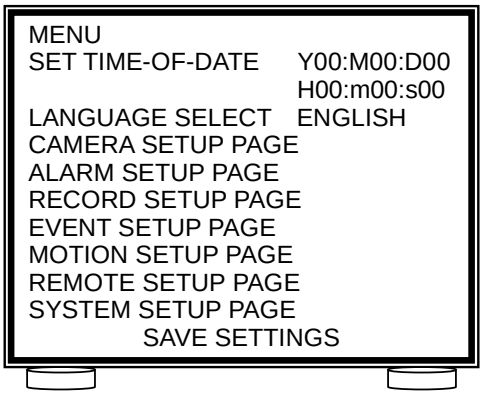
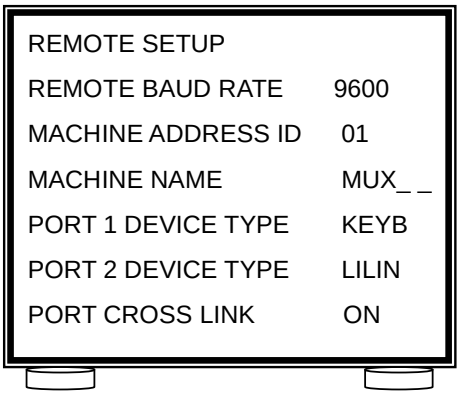
Multiplexer




REMOTE SETUP
REMOTE BAUD RATE 9600
MACHINE ADDRESS ID 01
MACHINE NAME MUX_ _
PORT 1 DEVICE TYPE KEYB
PORT 2 DEVICE TYPE LILIN
PORT CROSS LINK ON

- Press MENU key to enter main menu, and then choose remote setup page.

1. REMOTE BAUD RATE: 2400 / 4800 / 9600 / 19200
2. MACHINE ADDRESS ID: Use the UP/DOWN/ENTER keys to set the Address ID of this machine. In the whole system architecture, the value is range from 01 to 16.
3. MACHINE NAME: There are 5 character spaces to hold the name.

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4. PORT 1 DEVICE TYPE: This switch defines which device the port 1 (RS485) is connecting. The default is KEYB (REMOTE KEYBOARD)
   Control Keyboard SINGLE mode: PELCO-P
   Control Keyboard Matrix mode: KEYB
5. PORT 2 DEVICE TYPE: This switch defines which device the port 2 (RS485) is connecting. The default is LILIN (LILIN'S FAST DOME). Control Keyboard SINGLE and MATRIX mode, do not have to care.
6. PORT CROSS LINK: This switch is setting whether both the PORT 1 & PORT 2 are cross connected? "ON": Both PORT 1 & PORT 2 is connected. The Multiplex can use PORT 1 to connect one Remote Keyboard and one kind of Fast Dome via PORT 2 bus, and it can be controlled by Remote Keyboard, but it cannot connect any P/T/Z Dome in the PORT 1 bus. In this architecture you can install multiple keyboard via PORT 1 bus. "OFF": Both PORT 1 & PORT 2 are not cross connected. The multiplex can use PORT 1 to connect one Remote Keyboard and one kind of P/T/Z Dome via PORT 1 bus, and both the MUX and P/T/Z Dome can be controlled by the Remote keyboard, on the same bus, but not the fast Dome at the other side. In This architecture, the multiplex can also install another keyboard and another kind of fast Dome via PORT 2 bus, and it can be controlled by Keyboard on the same bus. Control Keyboard SINGLE and MATRIX mode, always "OFF".

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Additional: Control Command Display

▶CAM: 001 MUX:000 DVR: 000 MON:000 NOT YET LOGIN >	Matrix Mode: NOT YET LOGIN User not log in yet No this function of Single mode.
▶CAM: 001 MUX:000 DVR: 000 MON:000 USER LOGIN >	Matrix Mode: USER LOGIN User has log in No this function of Single mode.
▶CAM: 001 MUX:000 DVR: 000 MON:000 USER LOGOUT >	Matrix Mode: USER LOGOUT User log out No this function of Single mode.

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▶CAM: 001 MUX:000 DVR: 000 MON:000 NOT CORRECT PW >	Single / Matrix Mode: NOT CORRECT PW The password is not correct
▶CAM: 001 MUX:000 DVR: 000 MON:000 NEW PASS WORD SAVE >	Single / Matrix mode: NEW PASS WORD SAVE New password has saved
▶CAM: 001 MUX:000 DVR: 000 MON:000 CAMERA CONNECT >	Single / Matrix mode: CAMERA CONNECT Call camera and camera connecting.
CAM: 001 ▶ MUX:000 DVR: 000 MON:000 MULTIPLEXER CONNECT >	Single / Matrix Mode: MULTIPLEXER CONNECT Call MUX and MUX connecting.
CAM: 001 MUX:000 ▶DVR: 000 MON:000 DVR CONNECT >	Single / Matrix Mode: DVR CONNECT Call DVR and DVR connecting.
CAM: 001 MUX:000 DVR: 000 ▶ MON:000 MONITOR CONNECT >	Single / Matrix Mode: MONITOR CONNECT Call monitor and monitor connecting.
▶CAM: 001 MUX:000 DVR: 000 MON:000 MATRIX CONNECT >	Single / Matrix Mode: MATRIX CONNECT Call matrix and matrix connecting

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▶CAM: 001 MUX:000 DVR: 000 MON:000 ID IS NOT CORRECT >	Single / Matrix Mode: ID IS NOT CORRECT Device ID is not correct.
▶CAM: 001 MUX:000 DVR: 000 MON:000 COMMAND LOST >	Single / Matrix Mode: COMMAND LOST Call device, but command lost. Usually the control cable is broken.
▶CAM: 001 MUX:000 DVR: 000 MON:000 DEVICE BUSY >	Matrix Mode: DEVICE BUSY Another user is using the same device No this function of Single mode.
▶CAM: 001 MUX:000 DVR: 000 MON:000 SET PRESET >	Single / Matrix Mode: SET PRESET Preset position has set.
▶CAM: 001 MUX:000 DVR: 000 MON:000 CALL PRESET >	Single / Matrix Mode: CALL PRESET Call preset position
▶CAM: 001 MUX:000 DVR: 000 MON:000 CLEAR PRESET >	Single / Matrix Mode: CLEAR PRESET Clear all preset position

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▶CAM: 001 MUX:000 DVR: 000 MON:000 START AUTO TOUR >	Single / Matrix Mode: START AUTO TOUR START preset position auto tour
▶CAM: 001 MUX:000 DVR: 000 MON:000 STOP AUTO TOUR >	Single / Matrix Mode: STOP AUTO TOUR STOP preset position auto tour
▶CAM: 001 MUX:000 DVR: 000 MON:000 ALARM APPEAR >	Single / Matrix Mode: ALARM APPEAR Alarm event is happening

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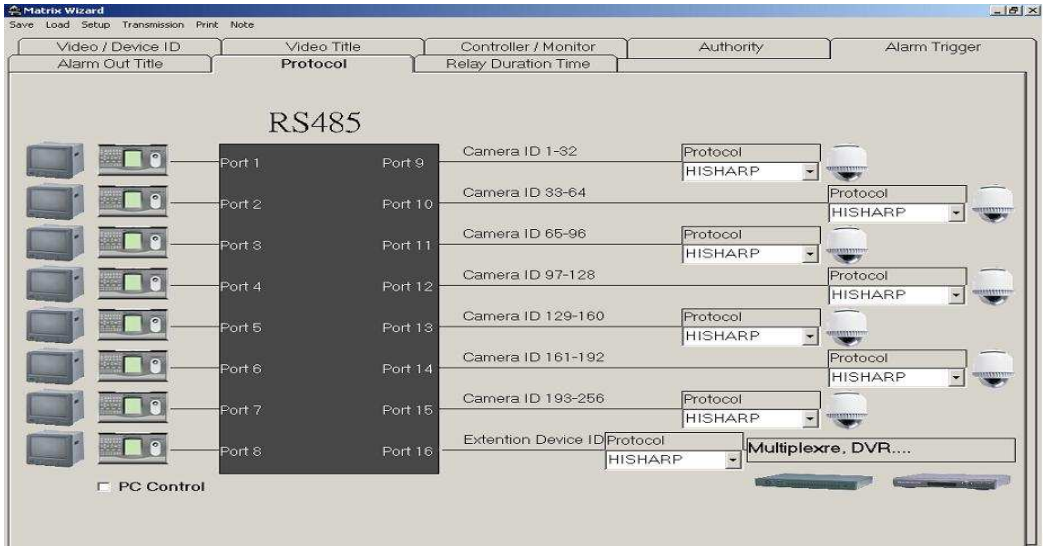
Additional: Matrix wizard

Click the data that to process after CD install and auto run window appear.

Double click the Matrix icon then Matrix setup wizard window pop-up. Setup the P/T/Z Dome protocol first, and then setup other devices.

□ **Protocol**



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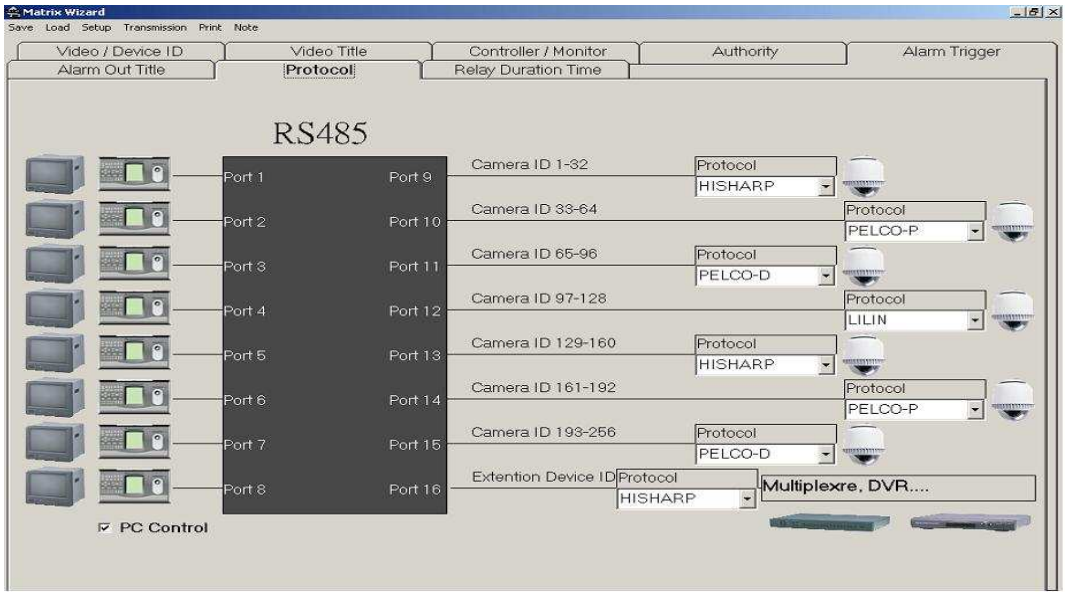
Setup port 9 ~ port 15 protocol connecting. Each port must connect same protocol.

P/T/Z DOME protocol: HISHARP / PELCO-P / PELCO-D / LILIN.



☐ PC Control. PC device could be a controller like control keyboard. User need a RS232->RS485 converter to transfer commands. Click the block to mode on.

□ Video / Device ID

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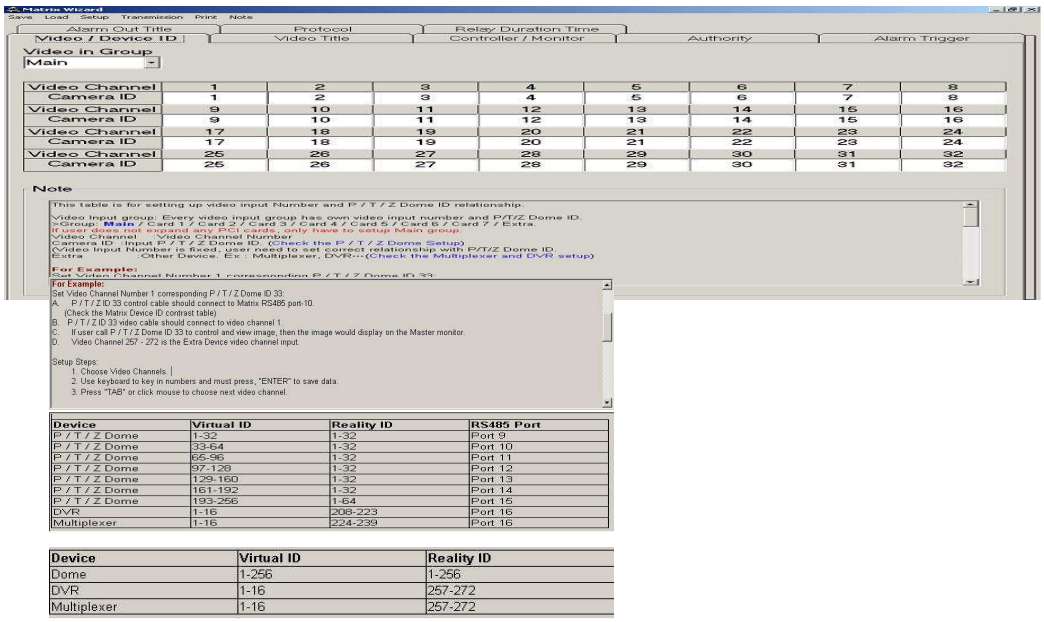

Video Channel	1	2	3	4	5	6	7	8
Camera ID	1	2	3	4	5	6	7	8
Video Channel	9	10	11	12	13	14	15	16
Camera ID	9	10	11	12	13	14	15	16
Video Channel	17	18	19	20	21	22	23	24
Camera ID	17	18	19	20	21	22	23	24
Video Channel	25	26	27	28	29	30	31	32
Camera ID	25	26	27	28	29	30	31	32

This table is for setting up video input Number and P / T / Z Dome ID relationship.
Video Input group: Every video input group has own video input number and P/T/Z Dome ID.
>Group: Main / Card 1 / Card 2 / Card 3 / Card 4 / Card 5 / Card 6 / Card 7 / Extra.
If user does not expand any PCI cards, only have to setup Main group.
Video Channel : Video Channel Number
Camera ID : Input P / T / Z Dome ID. (Check the P / T / Z Dome Setup)
Video Input Number is fixed, user need to set correct relationship with P/T/Z Dome ID.
Extra : Other Device, Ex : Multiplexer, DVR---(Check the Multiplexer and DVR setup)
For Example:
Set Video Channel Number 1 corresponding P / T / Z Dome ID 33.
A. P / T / Z ID 33 control cable should connect to Matrix RS485 port-10.
(Check the Matrix Device ID contrast table)
B. P / T / Z ID 33 video cable should connect to video channel 1.
C. If user call P / T / Z Dome ID 33 to control and view image, then the image would display on the Master monitor.
D. Video Channel 257 - 272 is the Extra Device video channel input.
Setup Steps:
1. Choose Video Channels.
2. Use keyboard to key in numbers and must press, "ENTER" to save data.
3. Press "TAB" or click mouse to choose next video channel.

Device	Virtual ID	Reality ID	RS485 Port
P / T / Z Dome	1-32	1-32	Port 9
P / T / Z Dome	33-64	1-32	Port 10
P / T / Z Dome	65-96	1-32	Port 11
P / T / Z Dome	97-128	1-32	Port 12
P / T / Z Dome	129-160	1-32	Port 13
P / T / Z Dome	161-192	1-32	Port 14
P / T / Z Dome	193-256	1-64	Port 15
DVR	1-16	208-223	Port 16
Multiplexer	1-16	224-239	Port 16

Device	Virtual ID	Reality ID
Dome	1-256	1-256
DVR	1-16	257-272
Multiplexer	1-16	257-272

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Video Input group: Every video input group has own video input number and P/T/Z Dome ID.

>Group: **Main** / Card 1 / Card 2 / Card 3 / Card 4 / Card 5 / Card 6 / Card 7 / Extra.

If user does not expand any PCI cards, only have to setup Main group.

Video Channel :Video Channel Number

Camera ID :Input P / T / Z Dome ID

(Video Input Number is fixed, user need to set correct relationship with P/T/Z Dome ID.

Extra :Other Device. Ex : Multiplexer, DVR

For Example:

Set Video Channel Number 1 corresponding P / T / Z Dome ID 33:

A. P / T / Z ID 33 control cable should connect to Matrix RS485 port-10.
(Check the Matrix Device ID contrast table)

B. P / T / Z ID 33 video cable should connect to video channel 1.

C. If user call P / T / Z Dome ID 33 to control and view image, then the image would display on the Master monitor.

D. Video Channel 257 - 272 is the Extra Device video channel input.

Setup Steps:

1. Choose Video Channels.
2. Use keyboard to key in numbers and must press, “ENTER” to save data.
3. Press “TAB” or click mouse to choose next video channel.

Matrix Device ID contrast table

Device	Virtual ID	Reality ID	RS485 Port
P / T / Z Dome	1-32	1-32	Port 9
P / T / Z Dome	33-64	1-32	Port 10
P / T / Z Dome	65-96	1-32	Port 11
P / T / Z Dome	97-128	1-32	Port 12
P / T / Z Dome	129-160	1-32	Port 13
P / T / Z Dome	161-192	1-32	Port 14
P / T / Z Dome	193-256	1-64	Port 15
DVR	1-16	208-223	Port 16
Multiplexer	1-16	224-239	Port 16

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Matrix Device Video Channel contrast table

Device	Virtual ID	Reality ID
Dome	1-256	1-256
DVR	1-16	257-272
Multiplexer	1-16	257-272

□ Video Title

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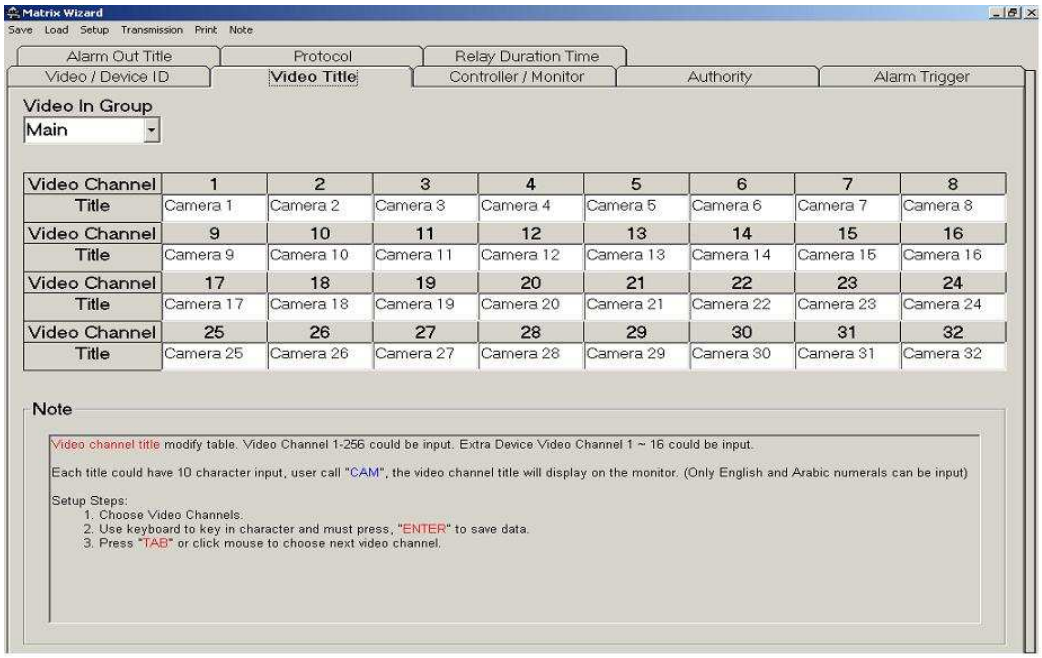
Matrix Wizard
Save Load Setup Transmission Print Note
Alarm Out Title
Protocol
Relay Duration Time
Video / Device ID
Video Title
Controller / Monitor
Authority
Alarm Trigger
Video In Group
Main
Video Channel 1 2 3 4 5 6 7 8
Title Camera 1 Camera 2 Camera 3 Camera 4 Camera 5 Camera 6 Camera 7 Camera 8
Video Channel 9 10 11 12 13 14 15 16
Title Camera 9 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16
Video Channel 17 18 19 20 21 22 23 24
Title Camera 17 Camera 18 Camera 19 Camera 20 Camera 21 Camera 22 Camera 23 Camera 24
Video Channel 25 26 27 28 29 30 31 32
Title Camera 25 Camera 26 Camera 27 Camera 28 Camera 29 Camera 30 Camera 31 Camera 32
Note
Video channel title modify table. Video Channel 1-256 could be input. Extra Device Video Channel 1 ~ 16 could be input.
Each title could have 10 character input, user call "CAM", the video channel title will display on the monitor. (Only English and Arabic numerals can be input)
Setup Steps:
1. Choose Video Channels.
2. Use keyboard to key in character and must press, "ENTER" to save data.
3. Press "TAB" or click mouse to choose next video channel.

Video channel title modify table. Video Channel 1-256 could be input. Extra Device Video Channel 1 ~ 16 could be input.

Each title could have 10 character input, user call “CAM”, the video channel title will display on the monitor. (Only English and Arabic numerals can be input)

Setup Steps:

1. Choose Video Channels.
2. Use keyboard to key in character and must press, “ENTER” to save data.
3. Press “TAB” or click mouse to choose next video channel.

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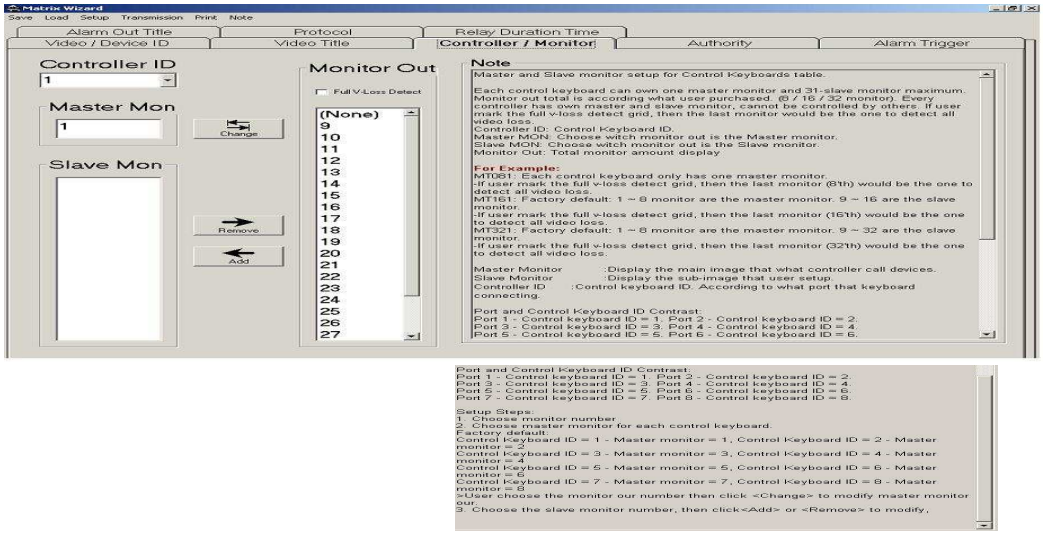
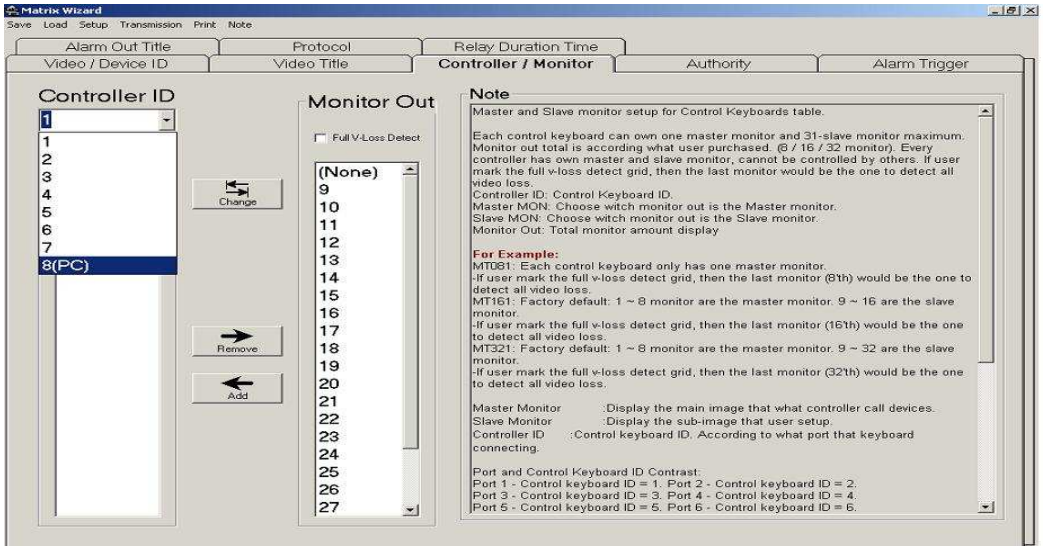
□ Controller / Monitor


Matrix Wizard
Save Load Setup Transmission Print Note
Alarm Out Title
Protocol
Relay Duration Time
Video / Device ID
Video Title
Controller / Monitor
Authority
Alarm Trigger
Controller ID
Master Mon
Slave Mon
Change
Remove
Add
Monitor Out
Full V-Loss Detect
(None)
Note
Master and Slave monitor setup for Control Keyboards table.
Each control keyboard can own one master monitor and 31-slave monitor maximum.
Monitor out total is according what user purchased. (8 / 16 / 32 monitor). Every controller has own master and slave monitor, cannot be controlled by others. If user mark the full v-loss detect grid, then the last monitor would be the one to detect all video loss.
Controller ID: Control Keyboard ID.
Master MON: Choose witch monitor out is the Master monitor.
Slave MON: Choose witch monitor out is the Slave monitor.
Monitor Out: Total monitor amount display
For Example:
MT081: Each control keyboard only has one master monitor.
-If user mark the full v-loss detect grid, then the last monitor (8'th) would be the one to detect all video loss.
MT161: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 16 are the slave monitor.
-If user mark the full v-loss detect grid, then the last monitor (16'th) would be the one to detect all video loss.
MT321: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 32 are the slave monitor.
-If user mark the full v-loss detect grid, then the last monitor (32'th) would be the one to detect all video loss.
Master Monitor :Display the main image that what controller call devices.
Slave Monitor :Display the sub-image that user setup.
Controller ID :Control keyboard ID. According to what port that keyboard connecting.
Port and Control Keyboard ID Contrast:
Port 1 - Control keyboard ID = 1. Port 2 - Control keyboard ID = 2.
Port 3 - Control keyboard ID = 3. Port 4 - Control keyboard ID = 4.
Port 5 - Control keyboard ID = 5. Port 6 - Control keyboard ID = 6.
Port 7 - Control keyboard ID = 7. Port 8 - Control keyboard ID = 8.
Setup Steps:
1. Choose monitor number.
2. Choose master monitor for each control keyboard.
Factory default:
Control Keyboard ID = 1 - Master monitor = 1, Control Keyboard ID = 2 - Master monitor = 2
Control Keyboard ID = 3 - Master monitor = 3, Control Keyboard ID = 4 - Master monitor = 4
Control Keyboard ID = 5 - Master monitor = 5, Control Keyboard ID = 6 - Master monitor = 6
Control Keyboard ID = 7 - Master monitor = 7, Control Keyboard ID = 8 - Master monitor = 8
>User choose the monitor our number then click <Change> to modify master monitor our.
3. Choose the slave monitor number, then click<Add> or <Remove> to modify.


Matrix Wizard
Save Load Setup Transmission Print Note
Alarm Out Title
Protocol
Relay Duration Time
Video / Device ID
Video Title
Controller / Monitor
Authority
Alarm Trigger
Controller ID
1
2
3
4
5
6
7
8(PC)
Change
Remove
Add
Monitor Out
Full V-Loss Detect
(None)
Note
Master and Slave monitor setup for Control Keyboards table.
Each control keyboard can own one master monitor and 31-slave monitor maximum.
Monitor out total is according what user purchased. (8 / 16 / 32 monitor). Every controller has own master and slave monitor, cannot be controlled by others. If user mark the full v-loss detect grid, then the last monitor would be the one to detect all video loss.
Controller ID: Control Keyboard ID.
Master MON: Choose witch monitor out is the Master monitor.
Slave MON: Choose witch monitor out is the Slave monitor.
Monitor Out: Total monitor amount display
For Example:
MT081: Each control keyboard only has one master monitor.
-If user mark the full v-loss detect grid, then the last monitor (8'th) would be the one to detect all video loss.
MT161: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 16 are the slave monitor.
-If user mark the full v-loss detect grid, then the last monitor (16'th) would be the one to detect all video loss.
MT321: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 32 are the slave monitor.
-If user mark the full v-loss detect grid, then the last monitor (32'th) would be the one to detect all video loss.
Master Monitor :Display the main image that what controller call devices.
Slave Monitor :Display the sub-image that user setup.
Controller ID :Control keyboard ID. According to what port that keyboard connecting.
Port and Control Keyboard ID Contrast:
Port 1 - Control keyboard ID = 1. Port 2 - Control keyboard ID = 2.
Port 3 - Control keyboard ID = 3. Port 4 - Control keyboard ID = 4.
Port 5 - Control keyboard ID = 5. Port 6 - Control keyboard ID = 6.

Master and Slave monitor setup for Control Keyboards table.

Each control keyboard can own one master monitor and 31-slave monitor maximum. Monitor out total is according what user purchased. (8 / 16 / 32 monitor). Every controller has own master and slave monitor, cannot be controlled by others. If user mark the full v-loss detect grid, then the last monitor would be the one to detect all video loss.

Controller ID: Control Keyboard ID.

Master MON: Choose witch monitor out is the Master monitor.

Slave MON: Choose witch monitor out is the Slave monitor.

Monitor Out: Total monitor amount display.

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For Example:

45208: Each control keyboard only has one master monitor.

-If user mark the full v-loss detect grid, then the last monitor (8'th) would be the one to detect all video loss.

45216: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 16 are the slave monitor.

-If user mark the full v-loss detect grid, then the last monitor (16'th) would be the one to detect all video loss.

45232: Factory default: 1 ~ 8 monitor are the master monitor. 9 ~ 32 are the slave monitor.

-If user mark the full v-loss detect grid, then the last monitor (32'th) would be the one to detect all video loss.

Master Monitor :Display the main image that what controller call devices.

Slave Monitor :Display the sub-image that user setup.

Controller ID :Control keyboard ID. According to what port that keyboard connecting.

Port and Control Keyboard ID Contrast:

Port 1 – Control keyboard ID = 1. Port 2 – Control keyboard ID = 2.

Port 3 – Control keyboard ID = 3. Port 4 – Control keyboard ID = 4.

Port 5 – Control keyboard ID = 5. Port 6 – Control keyboard ID = 6.

Port 7 – Control keyboard ID = 7. Port 8 – Control keyboard ID(PC) = 8.

Setup Steps:

1. Choose monitor number

2. Choose master monitor for each control keyboard.

Factory default:

Control Keyboard ID = 1 – Master monitor = 1, Control Keyboard ID = 2 – Master monitor = 2

Control Keyboard ID = 3 – Master monitor = 3, Control Keyboard ID = 4 – Master monitor = 4

Control Keyboard ID = 5 – Master monitor = 5, Control Keyboard ID = 6 – Master monitor = 6

Control Keyboard ID = 7 – Master monitor = 7,

Control Keyboard ID(PC) = 8 – Master monitor = 8

>User choose the monitor our number then click <Change> to modify master monitor our.

3. Choose the slave monitor number, then click<Add> or <Remove> to modify,

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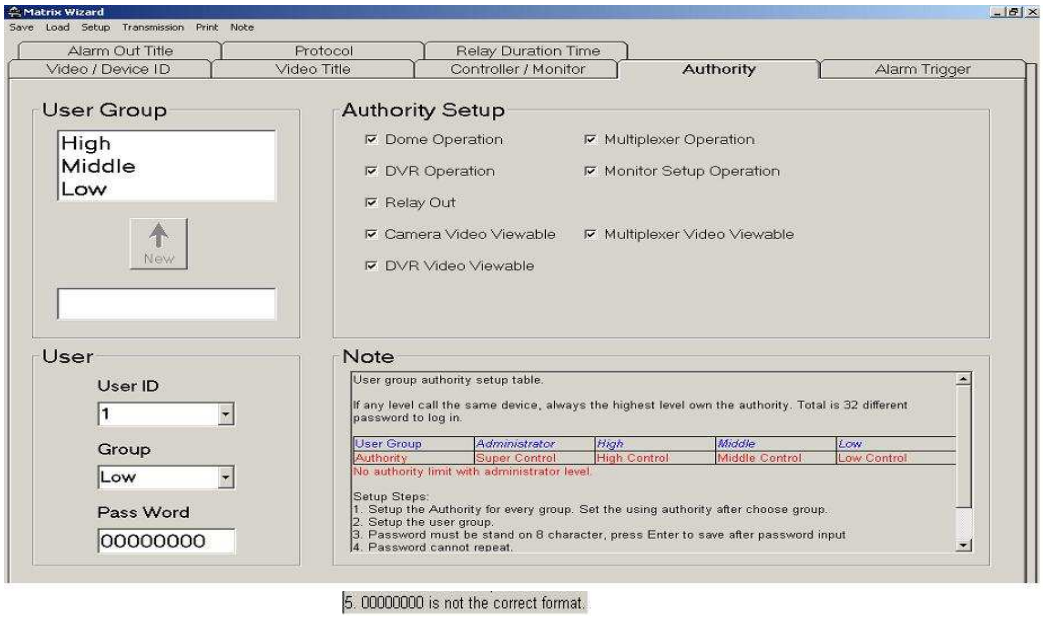
□ Authority



User group authority setup table.

If any level call the same device, always the highest level own the authority. Total is 32 different password to log in.

User Group	*Administrator*	*High*	*Middle*	*Low*
Authority	Super Control	High Control	Middle Control	Low Control

No authority limit with administrator level.

Setup Steps:

1. Setup the Authority for every group. Set the using authority after choose group.
2. Setup the user group.
3. Password must be stand on 8 character (default **10000001**), press Enter to save after password input
4. Password cannot repeat.
5. 00000000 is not the correct format.

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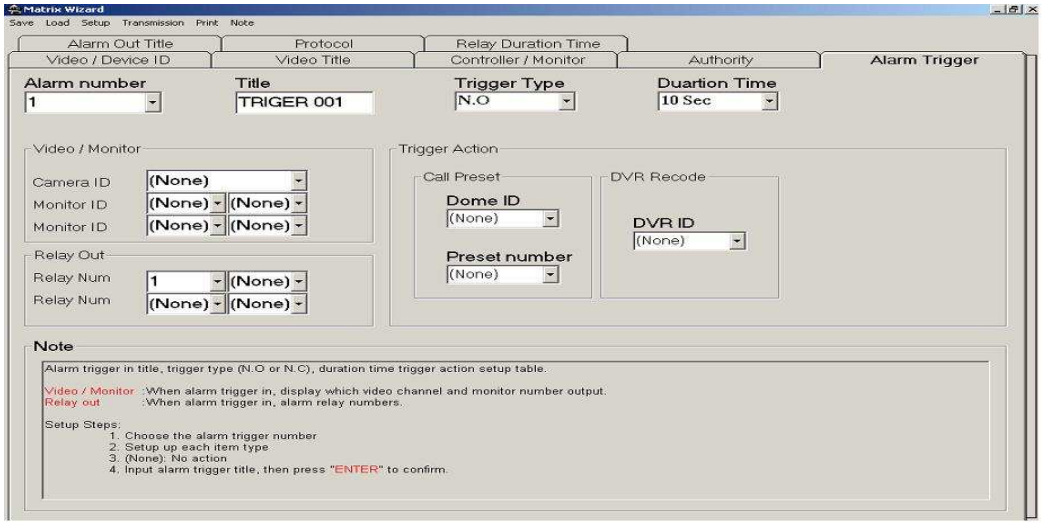
□ Alarm Trigger



Alarm trigger in title, trigger type (N.O or N.C), duration time trigger action setup table.

Video / Monitor :When alarm trigger in, display which video channel and monitor number output.

Relay out :When alarm trigger in, alarm relay numbers.

Setup Steps:

1. Choose the alarm trigger number
2. Setup up each item type
3. (None): No action
4. Input alarm trigger title, then press “ENTER” to confirm.

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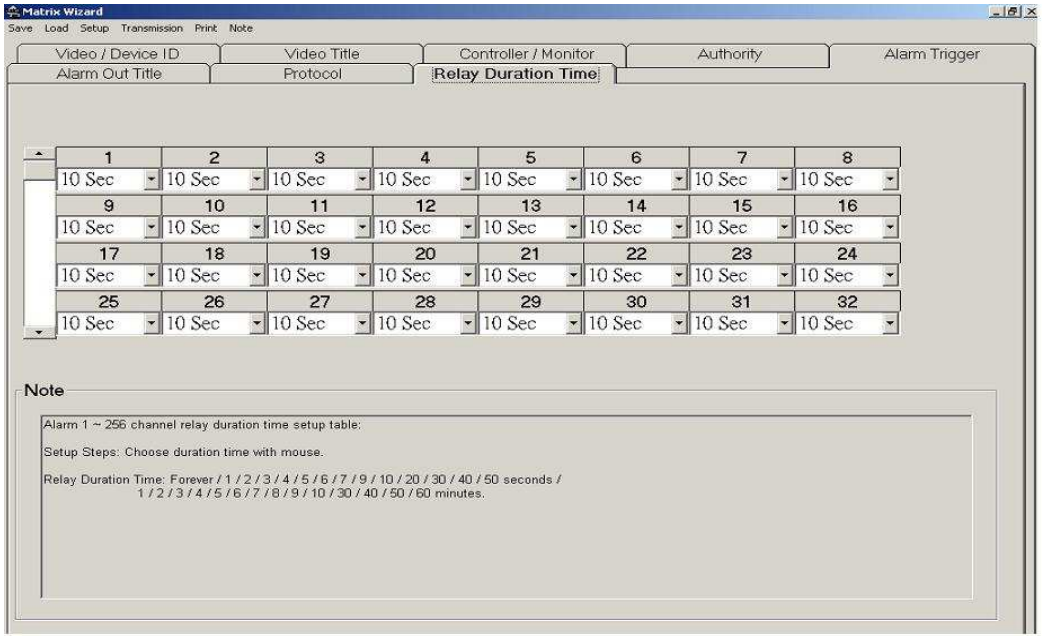
□ Relay Duration Time


Matrix Wizard
Save Load Setup Transmission Print Note
Video / Device ID
Video Title
Controller / Monitor
Authority
Alarm Trigger
Alarm Out Title
Protocol
Relay Duration Time
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32
10 Sec
Note
Alarm 1 ~ 256 channel relay duration time setup table:
Setup Steps: Choose duration time with mouse.
Relay Duration Time: Forever / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 9 / 10 / 20 / 30 / 40 / 50 seconds /
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 30 / 40 / 50 / 60 minutes.

Alarm 1 ~ 256 channel relay duration time setup table:

Setup Steps: Choose duration time with mouse.

Relay Duration Time: Forever / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 9 / 10 / 20 / 30 / 40 / 50 seconds /
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 30 / 40 / 50 / 60 minutes.

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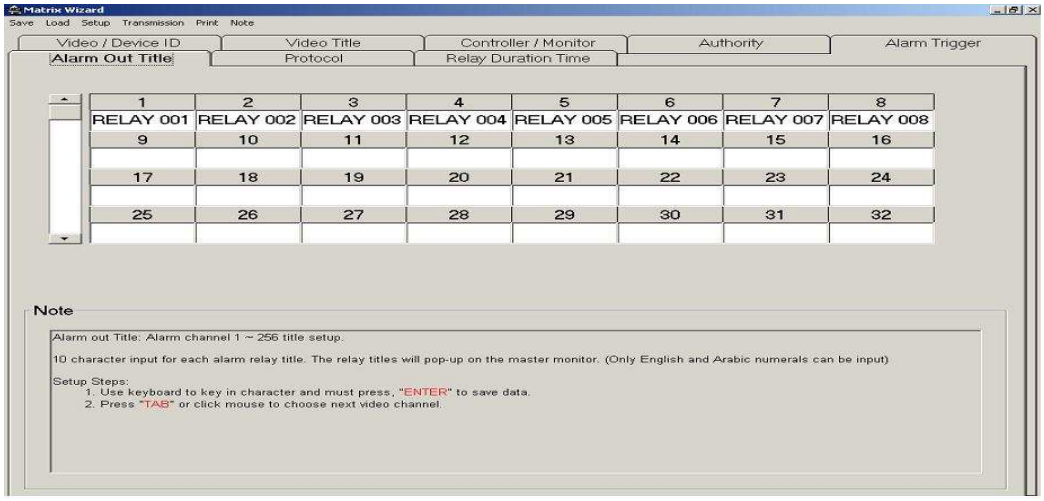
□ Alarm Out Title


Matrix Wizard
Save Load Setup Transmission Print Note
Video / Device ID
Video Title
Controller / Monitor
Authority
Alarm Trigger
Alarm Out Title
Protocol
Relay Duration Time
1 2 3 4 5 6 7 8
RELAY 001 RELAY 002 RELAY 003 RELAY 004 RELAY 005 RELAY 006 RELAY 007 RELAY 008
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32
Note
Alarm out Title: Alarm channel 1 ~ 256 title setup.
10 character input for each alarm relay title. The relay titles will pop-up on the master monitor. (Only English and Arabic numerals can be input)
Setup Steps:
1. Use keyboard to key in character and must press, "ENTER" to save data.
2. Press "TAB" or click mouse to choose next video channel.

Alarm out Title: Alarm channel 1 ~ 256 title setup.

10 character input for each alarm relay title. The relay titles will pop-up on the master monitor. (Only English and Arabic numerals can be input)

Setup Steps:

1. Use keyboard to key in character and must press, “ENTER” to save data.
2. Press “TAB” or click mouse to choose next video channel.